



# Great British Range Cookers



SINCE  
1854

The authentic original



# master stove maker since 1854

## This is ESSE...

Thankfully it is not possible to mass produce an ESSE cast iron range cooker. We take pride in maintaining the time honoured process of design, enamelling and hand building our range cookers whilst embracing evolution and product development. Just like the original stove and cast iron range cooker pioneers James Smith and Stephen Wellstood did when they created the first ESSE back in 1854.

In an ESSE you have a Great British cast iron range that has stood the test of time longer than any other through a process of continuous improvement.



### Credibility and Celebrity

Florence Nightingale was passionate about ESSE cookers and would use no other brand in her Balaklava hospital. Famous British explorers Scott and Shackleton used ESSE cookers in the most hostile conditions in Antarctic expeditions. Even James Bond, who always has the best, cooked on an ESSE in "A View to a Kill". More recently when River Cottage was in need of an efficient economical range cooker with a great performance they chose ESSE.

You cannot put a price on that kind of pedigree.  
But you can own an ESSE.

Available in a choice of cooker, boiler, fuel type and colour options.

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# Wood burning

WN cooker only, WD and W35 boiler models

“A unique Wood-fired range cooker that is clean and easy to live with”

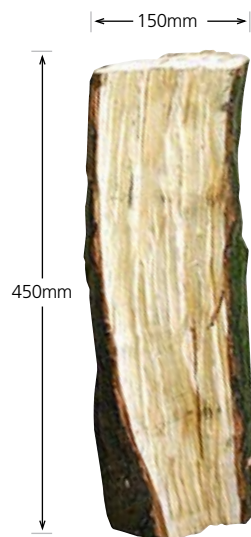
A log burning range cooker is an environmentally friendly idea but for a wood fired cooker to integrate into any modern home, it must be clean and easy to live with.

At the heart of the cooker is the extraordinary fire box with its capacity to swallow 45cm logs so chopping wood is kept to a minimum and refuelling is simple. Once burning and fully loaded, a single fuel load lasts over 12 hours (WN cooker only model).

The ESSE Wood-fired range cooker is incredibly efficient, so much so that the heat is kept within the unit and it can be placed close to furniture within a fitted kitchen or used as a free standing appliance. The ESSE Wood-fired cooker requires a 6" flue.



Large log capacity



## Specifications

Model	WN ☺	WD	W35 ☺
Flue outlet	Top	Top	Top
Flue pipe diameter	6" (150mm)	6" (150mm)	6" (150mm)
Overnight burning (suitable for continuous burning)	●	●	●
Afterburn2™ technology	●	●	●
Mean boiler output inc DHW approx	○	7000Btu/h	33000Btu/h / 9.7kW/h (4.2kW to space)
Mean boiler output inc DHW - Summer setting	○	○	12000Btu/h / 3.7kW/h (1.6kW to space)
Radiant output to room (operating range)	3-5kW/h	3-5kW/h	3-5kW/h
Radiant output to room - Summer setting	○	○	2-4kW/h
Log burning firebox (not suitable for coal etc)	●	●	●
Max efficiency % (wood)	74.5	78	75.9
Additional room vents required	★	●	●

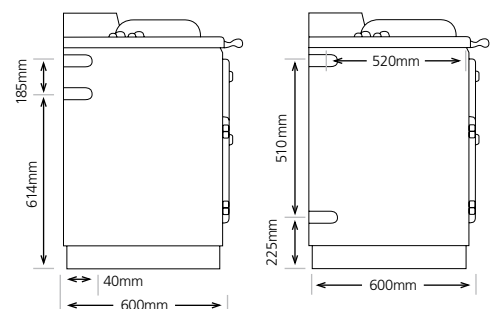
● Applicable ○ Not applicable ★ Not normally required

Oven Dimensions – Top oven width 350mm, height 300mm, depth 460mm; Bottom oven width 350mm, height 200mm, depth 460mm

Clearances – Non-combustible material from sides 7mm (except when adjacent to Plus2); Combustible material from side 20mm; Combustible material from back 40mm



W35 Thermastatic knob control



Boiler tappings for WD

Boiler tappings for W35 (W35 has additional back tappings which are at the same height as the side tappings and 85mm in from the side)

It is important to incorporate pipe thermostats in the plumbing of boiler models and allow for pipework heat losses when planning your system.

# Plus2 13amp/gas or 45amp all electric



45amp electric model hob – cold to hot in just 4 seconds



13amp electric model with gas hob - triple corona and rapid burners

## Specifications

New

Model	45amp	13amp*
Cooker options	Cooking only	Cooking only
Heat Source - ovens & hotplate	Electric	Electric and Gas
Hotplate	Black ceramic glass	Gas hob

\* The ovens use a similar amount of electricity as conventional electric cookers. If using the electric model as a space heater it will use 1/3kW per hour to keep the cooker warm. Running costs compare favourably with conventional central heating boilers.

\* Gas hob model comes with natural gas/LPG kit as standard.

Oven Dimensions – Top oven width 350mm, height 300mm, depth 450mm  
Bottom oven width 350mm, height 200mm, depth 450mm

## Double the cooking capacity of any ESSE enamelled range cooker

The Plus2 is available as a 13amp model with electric ovens, grill and gas hob or as a 45amp electric only companion with four ring ceramic hob. Plus2 gives you the freedom to complement your ESSE Range Cooker with additional fuelling options and cooking capacity.

Ovens are conventionally heated electric ovens, giving you the freedom to not be reliant on oil, gas or wood-fired cooking all year round. Each oven is independently controlled.

The gas hob model has the additional benefits of gas/ electric dual fuel and a regular 13amp electricity supply. The hob features a triple corona 3.8kW burner for a large pan or wok and rapid 3kW burner.

An extended towel rail, kicker strip and connector bar allows cooker and Plus2 to sit together.

You do not need to partner up your Plus2 with an ESSE range cooker. Plus2 is equally at home as a stand alone appliance or planned into another part of the kitchen.

Plus2 is available in two depth sizes, 660mm for all oil pressure jet models and 600mm for pairing up with all other enamelled cooker models.



Plus2 - the companion to every enamelled cast iron range cooker or as a stand alone.

# Solid Fuel

The Ironheart EW and EWB boiler model



## The Ironheart

The Ironheart was launched in 2004 to celebrate 150 years of ESSE Cookers and Stoves; it remains a best seller. The Ironheart is the stove designed for cooking and when River Cottage wanted a stove naturally they chose Ironheart.

The Ironheart can be personalised with a range of accessories and colour options including plate warming cupboard, pan drawer, splash back, matt painted or gloss enamelled top casting, satin or shiny bolster covers and a choice of charcoal (standard), black, green or red matt paint finishes.

The Ironheart burns either wood or mineral based solid fuel and gives out up to 9.9kW/h depending on fuel type and settings (2.6kW/h to water and 10.5kW/h to space heat output - domestic hot water model). An optional log burning firebox grate is available for those wishing only to burn wood.



The Ironheart with pan drawer, plate warming cupboard and splashback.



The Ironheart at home in River Cottage

**The Ironheart log burning grate**  
Allows you to achieve wood-fired overnight burning on your Ironheart.



## Specifications

Model	EW €	EWB €
Flue outlet	Top	Top
Flue pipe diameter	6" (150mm)	6" (150mm)
Overnight burning (suitable for continuous burning)	●	●
Pre-heater secondary airwash	●	●
Afterburn2™ technology	●	●
Operating range (depending on fuel type and settings)	Up to 9.9kW/h	Up to 2.6kW/h to water 10.5kW/h to space
Log burning firebox grate (not suitable for coal)	Optional	Optional
Efficiency % (wood) with log burning grate	81.8	81.8
CO emissions correct to 13% O <sub>2</sub>	0.27	0.23
Additional room vents required	27cm <sup>2</sup>	45cm <sup>2</sup>

● Applicable

Oven Dimensions – Oven width 320, height 340, depth 440

Clearances – Non-combustible materials from side and back 20mm; Combustible material from side

EW 300mm EWB 200mm; Combustible material from back EW 500mm EWB 400mm; From bolster lid 416mm



River Cottage head chef Gill Mellor baking bread in his Ironheart cook stove.



# Flueless Gas



## CAT

The CAT Enabled flueless range cooker gives you the cooking performance of a range cooker with added efficiency as no heat is lost up a flue. The CAT cleans the gases burnt by the cookers single atmospheric burner removing the need for a flue to vent them outside.

As no flue is required you have lower installation and servicing costs and more freedom to position your cooker where you like.

The CAT can be programmed to come on and off three times a day via its seven day timer or used continuously and controlled manually. Manual control allows the cooker to be used in the event of a power cut.

Outputs: Summer Operation 1.3kW/h,  
Winter Operation 2.7kW/h.

All ESSE gas cookers are available in natural gas and propane.  
The ESSE flueless CAT cooker uses patented technology licensed in the UK GB2275331B. All ESSE gas appliances are CE marked.



# Flued Gas

GN and GD domestic hot water boiler model



"Quick response gas cast iron range cooking"

**Programmable Flued Gas Cooker**  
The ESSE gas range cooker has a single atmospheric burner and requires a 4" flue.

**Programmable Flued Gas Cooker with Domestic Hot Water Boiler**  
The domestic hot water boiler model is capable of 8000Btu/h or 2.4kW/h to water.

Both Flued gas models can be programmed to come on and off three times a day on a seven day timer or used continuously and controlled manually. Manual control allows the cooker to be used in the event of a power cut.



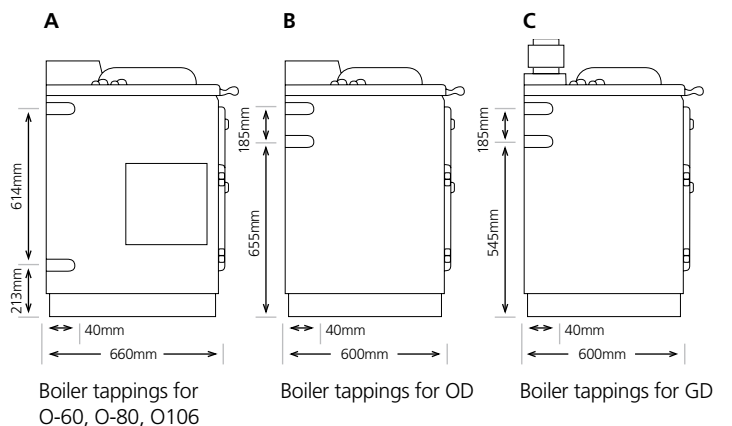
The ESSE "dog bone" hotplate – offers a large cooking area an unrivalled temperature gradient from boil to simmer.



## Specifications

Model	GN	GD
Cooker options	Cooking only	Cooking & hot water
Heat Source or burner type - boiler	○	Single atmospheric heats both
Heat Source or burner type - ovens & hotplate	1 x atmospheric	
Heat output to water - minimum	○	2000Btu/h / 0.6kW
Heat output to water - maximum	○	8000Btu/h / 2.4kW
Hotplate	Cast iron	Cast iron
Flue pipe diameter	4" (102mm)	4" (102mm)
Preferred vertical rise	500mm	500mm
Boiler tappings	○	C (see diagram)
Fuel consumption - Summer operation (approx)	1.3kW/h	1.3kW/h
Fuel consumption - Winter operation (approx)	2.7kW/h	2.7kW/h
○ Not applicable		
Oven Dimensions – Top oven width 350mm, height 300mm, depth 460mm Bottom oven width 350mm, height 200mm, depth 460mm		

## Boiler tappings for gas and oil cookers



All ESSE gas cookers are available in natural gas and propane.

**BIOFUEL READY**  
since 2003



“Pressure jets offer outstanding control”

## Oil

Atomising pressure jet models – OC cooker only, O-60, O-80, O-106 boiler models  
Vaporising models – ON and OD with domestic hot water boiler

### Oil atomising / pressure jet

Pressure Jet cookers offer outstanding levels of control. Thermostatically controlled ovens can be turned off completely (in summer) and will reheat from cold to 200°C in just 40 minutes. In normal use they will heat up much faster from a low setting.

ESSE Pressure Jet models can be programmed to come on and off three times a day via a seven day timer or controlled manually. On boiler models, boilers can be programmed independently.

Pressure jet cookers had a reputation for being noisy ten years ago. While the ESSE can be heard the modern ESSE pressure jet is extremely quiet compared to older models.



### Oil vapourising

Simple to use and ruggedly reliable, vaporising oil cookers will continue to work in the event of a power cut. Traditional ‘pot’ burner appliances are best suited for continual use. The domestic hot water version gives up to 9000Btu/h or 2.6kW/h to water.

## Specifications

Model	O-60	O-80	O-106	OC	ON	OD
Cooker options	Cooking, heating and hotwater			Cooking only	Cooking only	Cooking & hot water
Heat Source or burner type - boiler	1 x pressure jet	1 x pressure jet	1 x pressure jet	○	○	Single vaporising burner heats both
Heat Source or burner type - ovens & hotplate	1 x pressure jet	1 x pressure jet	1 x pressure jet	1 x pressure jet	1 x vaporising	
Heat output to water - minimum	○	○	○	○	○	3000Btu/h / 0.9kW
Heat output to water - maximum	60000Btu/h / 17.6kW	80000Btu/h / 23.4kW	106000Btu/h / 31.1kW	○	○	9000Btu/h / 2.6kW
Hotplate	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast Iron
Flue pipe diameter	5" (126mm)	5" (126mm)	5" (126mm)	5" (126mm)	5" (126mm)	5" (126mm)
Preferred vertical rise	500mm	500mm	500mm	500mm	500mm	500mm
Boiler tappings	A (see diagram)	A (see diagram)	A (see diagram)	○	○	B (see diagram)
Fuel consumption - Summer operation (approx)	†	†	†	†	6 ltr per day	6 ltr per day
Fuel consumption - Winter operation (approx)	†	†	†	†	10 ltr per day	10 ltr per day

○ Not applicable † The oven burner will use 0.6 of a litre for the first hour from cold and thereafter 0.25 of a litre per hour to maintain a constant high oven temperature.

Oven Dimensions – Top oven width 350mm, height 300mm, depth 460mm; Bottom oven width 350mm, height 200mm, depth 460mm



**BIOFUEL READY**  
since 2003

The first oil pressure jet cooker was successfully converted to run on biofuel in 2003. All hoses, filters and pumps are biofuel ready and biofuel nozzle upgrades are available. So if and when bio-diesel of the correct grade becomes commercially available, we are ready and waiting.

# Electric



Integral electric grill – with stay clean oven ceiling

## Specifications

Model	EC
Cooker options	Cooking only
Heat Source - ovens & hotplate	Electric
Hotplate	Black ceramic glass
<p>★ The ovens will use a similar amount of electricity as a conventional electric cooker. If using the electric cooker as a space heater it will use 1/3kW/h.</p> <p>Oven dimensions – Top oven width 350mm, height 300mm, depth 450mm                      Bottom oven width 350mm, height 200mm, depth 450mm</p> <p>A 45amp electric supply is required.</p>	

Unique 'dog bone' hotplate – cold to hot in just 4 seconds

“Controlled electric cooking in a traditional cast iron range”

The Electric ESSE features a unique ceramic glass hotplate that has two sets of concentrically expanding elements. Each can be set to the required coverage and regulated to the desired temperature setting, enabling you to boil up to six pans or gently simmer just one small one. Maximum temperature is available in just four seconds so pans and hotplate kettles very quickly reach boiling point.

Two generous sized ovens are individually heated by elements and both are independently controlled and main oven features a powerful grill providing even greater cooking flexibility. Ovens are easy clean vitreous enamel. A plate warming oven completes the cooker.

# AccESSEries



## Colour Co-ordinated Handles

Colour co-ordinated handles are available for all enamelled cast iron models except Wood-fired.



## Centraliser

The ideal solution for connecting up two boilers to drive the same heating system. For example to link up an ESSE wood fired cooker / boiler with an ESSE 700-17b boiler stove.



## EW/EWB conversion kit

A boiler conversion kit is available to convert The Ironheart cooker only model into a cooker with a domestic hot water boiler.

## ESSE stoves

We also hand-make a range of Smoke Control Exempt, Traditional, Contemporary, boiler and inset stoves.

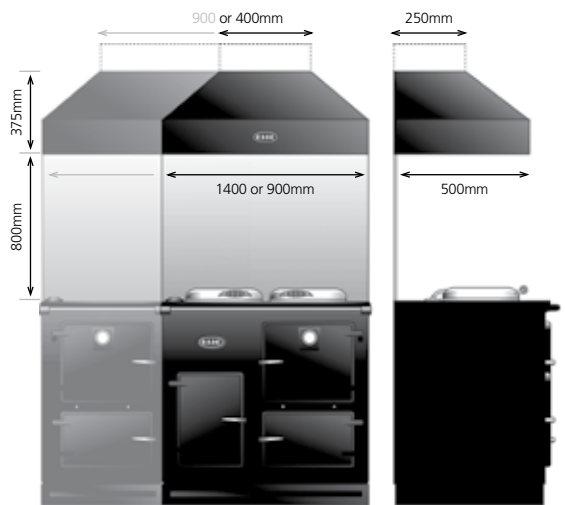
"100SE - 5kW stove approved for wood burning in a smoke control area"



## High performance extraction

ESSE range hoods are designed to compliment your CAT-enabled or electric ESSE perfectly, both in performance and looks. Made from high quality stainless steel and finished in a rich, deep gloss enamel, they are available in black or stainless steel as standard. Alternatively, it can be colour coordinated to match the colour of your ESSE by special order. Twin 20W halogen lamps provide superb cooker top illumination and an optional stainless steel splashback and utensil rail provides a practical wall covering.

ESSE range hoods are designed to perform. They have enough power to 'draw' the air below and around the hood up through the filters, so that unwanted cooker odours and vapours produced on the hob are quickly neutralised. Filters can be washed by hand or in a dishwasher then simply be put back in to the extraction hood.



## Cookware

ESSE recommends a range of cookware suitable for use with all ESSE cookers. ESSE cookers will work with most cookware types and brands with the exception of the ceramic hob on electric cookers which are not intended for use with enamelled cast iron pans.



## Oven glove and pinafore

A complementary oven glove and pinafore set comes with every ESSE cooker.

## Your Cast Iron Guarantee

All ESSE Cookers and Ironheart Cookstove come with a three year conditional guarantee except the Electric cooker which comes with a two year conditional guarantee. Exclusions to the guarantee include damage resulting from transportation and parts deemed to be replaceable in the normal usage of the cooker. The guarantee is personal to the original purchaser and is non-transferable.

# Colours



Cocoa



Cream



Pewter (Special option)



Classic Green



Jet Black



Claret (Special option)



Royal Blue



Saffron (Special option)



Wedgwood (Special option)

Due to the limitations of the printing process it is not possible to replicate enamel colours in a printed brochure. Colour options may periodically change check with your dealer or at [www.esse.com](http://www.esse.com) for further details.

## Flues and location

Most ESSEs require a properly sized and fitted flue to ensure that the cooker operates correctly. The flue carries away the products of combustion, assists the supply of air to the burner and helps to draw hot gases through the flueways around the ovens, to ensure even temperatures.

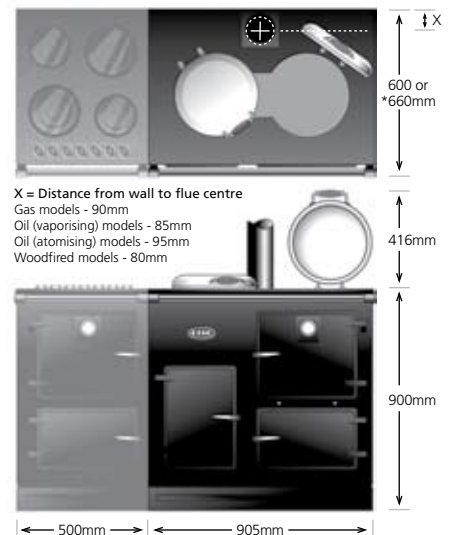
Flue performance is measured by determining the flue draught, which requires special equipment and can only be done when the cooker is installed and working. This forms part of the commissioning process.

An existing chimney or similar flue may be suitable, which must be lined prior to installation. Alternatively a new flue may be installed which should terminate clear of the roof or any other nearby building, bank or tree that might create wind turbulence affecting the flue. The flue should be of a minimum height, generally of 4.5m and as vertical as possible, keeping bends to a minimum and deviating no more than 30° from vertical.

### Smoke control areas

Wood-fired range cookers are subject to smoke control area regulations. If you are unsure whether your home is in a smoke control area, contact your local council or check your local area search documents.

## Dimensions



MADE IN BRITAIN  
SINCE 1854



ESSE STOVES HAVE AN EXCEPTIONALLY LONG LIFE AND ARE MADE FROM RECYCLABLE MATERIAL

ESSE Engineering Limited, Ouzledale Foundry, Long Ing, Barnoldswick, Lancashire BB18 6BN  
 Tel: 01282 813235 Fax: 01282 816876 Email: [enquiries@esse.com](mailto:enquiries@esse.com) Website: <http://www.esse.com>

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