

# Boiler Handbook

Ultimate Guide to the Firebird Range of Oil-Fired Boilers

SUPERIOR HEATING SOLUTIONS  
SINCE 1980



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# Taking Boiler Efficiency to New Heights

Firebird Products Ltd are market-leading manufacturers of heating products with a proven track record built on the global supply of heating systems. Established in Ireland in 1980, the Firebird name has become synonymous with performance, quality and innovative design.

At the forefront of technology, Firebird are committed to providing cost-effective, energy-efficient heating solutions that not only meet, but easily exceed today's stringent legislative requirements. Historically an oil-fired boiler manufacturer; the addition of renewable heating options, which include air source heat pumps, biomass boilers and solar thermal systems enable Firebird to offer a total heating solutions package.



# Why Choose a Firebird Boiler?

**Easy to Install & Service** – multiple tapping points, front service access and multi-directional flue options

**Low NO<sub>x</sub> Emissions** – easily exceeds legislative requirements from 2018 and beyond\* / future-proofs against future legislation

**Low Maintenance** – long life serviceable components

**Pioneering Design Technology** – the first UK manufacturer to introduce Blue Flame oil-fired boilers

**Market-leading Seasonal Efficiency of 97.4%\*\*** – surpasses any other boiler in its class

**Reduce Heating Bills** – the greater the efficiency, the lower the heating bills

**Unbeatable Product Range** – widest range of boilers available in UK, outputs from 12kW – 100kW

**Innovative Anti-corrosion Design** – location of secondary heat exchanger eliminates potential for corrosion of boiler shell

**Proven Track Record** – providing heating solutions for nearly 40 years

**10 Year Warranty\*\*\***



\* Firebird Blue Supreme & Enviroblue product ranges

\*\* Firebird Blue Supreme range. SAP 2005 Seasonal Efficiency. Source: [www.ncm-pcdb.org.uk/sap](http://www.ncm-pcdb.org.uk/sap)

\*\*\* Terms & Conditions apply



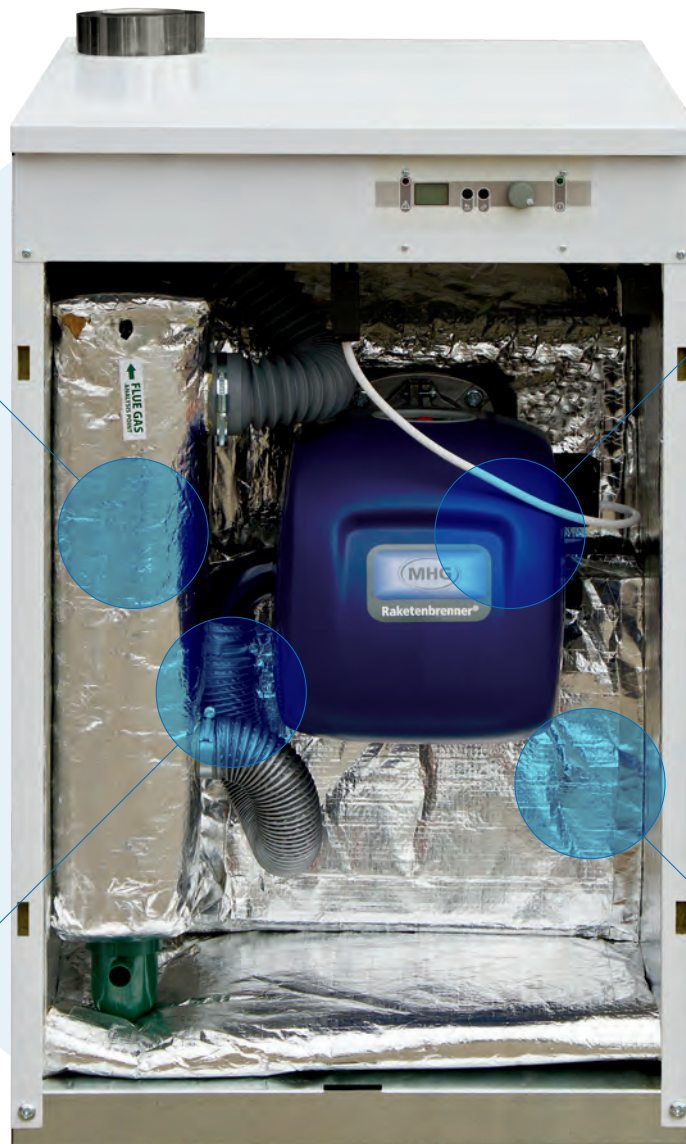
# Home of Europe's Most Efficient Domestic Boiler\*\*

Third heat exchanger extracts more energy from combustion gases

Cutting-edge German Blue Flame burner technology

Pioneering Heat Recovery System

Fully insulated to prevent any heat loss



The greater the efficiency, the lower the heating bills...

Boiler featured is from the Firebird Blue Supreme Range.

## Research & Development

Firebird are committed to an ongoing programme of Research & Development; as such they continue to lead the industry by providing the most innovative, technologically advanced and energy-efficient heating options available in today's market.

## Innovative European Design

The positioning of the secondary heat exchanger in an oil-fired boiler is an important consideration to prevent against any corrosion of the boiler shell. In line with standard European practice, Firebird have designed a complete unit which houses the secondary heat exchanger beneath the primary heat exchanger. By locating this unit at the bottom of the appliance (rather than in the centre), the potential for corrosion of the boiler shell is eliminated.

## Durable Construction

All Firebird oil-fired boilers are constructed from premium grade steel (minimum 4mm gauge). Internal models feature a heavy-duty casing, with a polyester-coated finish to provide optimum protection from normal wear and tear.

## Extensive Product Range

With over 70 models available in outputs from 12kW to 100kW, Firebird offers the most comprehensive range of oil-fired boilers available for internal, external and boilerhouse applications.

## Easy to Install & Service

For ease of installation all Firebird boilers feature multiple tapping points and multi directional flue options. A 7-pin plug simplifies wiring and an optional condensate pumps provides the perfect solution where natural gradient is not available. Front service access also provides easy access to common service parts.

## Dedicated Service Engineers

All Firebird boilers are supported by both an in-house team and a national network of service engineers. This dedicated support service is available before, during or after the purchase of any Firebird boiler.

## Firebird Training Centres

Firebird offer a comprehensive programme of training courses for installers and service engineers which cover installation, commissioning, service and repair. These are available at Firebird's UK headquarters in Plymouth and at a number of OFTEC registered training centres throughout the UK. The training centre in Plymouth provides the opportunity for training to be given on fully operational Firebird boilers. For further information, please contact Firebird Products Ltd.

## Spare Parts

A comprehensive range of spare parts are available through a national network of approved stockists. For further information please contact Firebird Products Ltd.

## Delivery

Firebird holds unrivalled stock levels at its UK headquarters to ensure that even the most exacting delivery requirements can be met. Many products are available for next day delivery.



## Ecodesign Directive

The Ecodesign Directive (EU813/2013) is a European initiative put in place to govern the design and performance of energy-using products, to reduce the amount of energy consumed and the subsequent impact on the environment. New requirements on flue gas emissions state that from September 2018, harmful nitrogen oxide emissions from domestic oil boilers must not exceed 120mg/kWh. Nitrogen Oxide emissions – or NO<sub>x</sub> emissions as they are more commonly known are released into the atmosphere when fossil fuels are burned. Utilising the revolutionary third generation MHG blue flame burner, application figures from the field have shown NO<sub>x</sub> levels produced by boilers from Firebird's Blue Supreme range to be as low as 65mg/kWh – nearly half the 120mg/kWh limit for 2018.

## Pioneers of Blue Flame Technology

A common assumption is that Blue Flame technology has only been developed in response to pending changes in legislation, when in fact Firebird have worked in partnership with German manufacturer MHG Heiztechnik GmbH for many years. Together they developed the first mainstream Blue Flame oil-fired condensing boiler in the UK (the Blue Supreme Range), which has been available for over three years.



## So what is Blue Flame Technology and how does it Reduce NO<sub>x</sub> Emissions?

The principle of Blue Flame technology is simple and is demonstrated by the blue burner range that Firebird have adopted for their Blue Supreme boiler range. Heating oil is converted to a gas at high pressure, through a high tolerance nozzle (using the thermodynamic premixing principle). This is then premixed with the air required for combustion, via a special mixing system diffuser. The perfectly homogenised air/ fuel mixture is directed into the centre of the intended burning zone, prior to ignition and the flame produced is channelled down the burner tube to form an intense, elongated flame. A percentage of the hot combustion gasses produced are then re-circulated back through slots in the burner head, where a degree of integral reburning takes place. The intensity of the flame, and the recirculation process, burns off high concentrations of NO<sub>x</sub> that are usually generated in the combustion process.

## Seasonal Efficiency Ratings

In the UK SEDBUK, which stands for Seasonal Efficiency of Domestic Boilers, is a system used to classify and compare boilers on how efficient they are at converting fuel into heat. The patented condensing heat exchanger, which forms an integral part of a Firebird boiler shell, enables more heat to be captured and reused, resulting in a higher seasonal efficiency figure. The Blue Supreme range from Firebird takes this a stage further by utilising a patented, high-efficiency heat recovery unit in conjunction with the boilers secondary heat exchanger that pre-warms the air required for combustion. This results in a seasonal efficiency rating of 97.4%\* making it the most efficient domestic oil-fired boiler in Europe.

## ErP Directive

The ErP (Energy Related Products) Directive is a European regulation that came into force in 2015. Through the use of Energy Labels, it is designed to make homeowners aware of the efficiency of heating and hot water systems. All boilers in the Firebird product range achieve an ErP A Rating as they offer outstanding seasonal efficiency ratings, well in excess of 90%.\*

\* SAP 2005 Seasonal Efficiency. Source: [www.ncm-pcdb.org.uk/sap](http://www.ncm-pcdb.org.uk/sap)



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# Firebird Oil-Fired Boiler Product Ranges

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Firebird offer four comprehensive product ranges for internal, external and boilerhouse applications.

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## Blue Supreme™

Blue Flame technology at its best – Europe's most efficient domestic condensing oil-fired boiler, incorporating cutting-edge German burner technology; a patented, pioneering Heat Recovery System and a third heat exchanger which extracts more energy from the combustion gases.



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## Enviroblue™

High-efficiency Blue Flame domestic condensing oil-fired boilers featuring the Riello RDB BLU Low NO<sub>x</sub> burner and patented heat exchanger design.



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## Enviromax™

High-efficiency boilers featuring the traditional high-performance Riello RDB burner and patented heat exchanger design.



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## Enviro-lite

High-efficiency eco boilers featuring the traditional high-performance Riello RDB burner and patented heat exchanger design.





# Which Type of Boiler Should I Choose?

There are three main types of boiler typically used in the UK. The type of boiler selected is usually determined by using the following criteria:

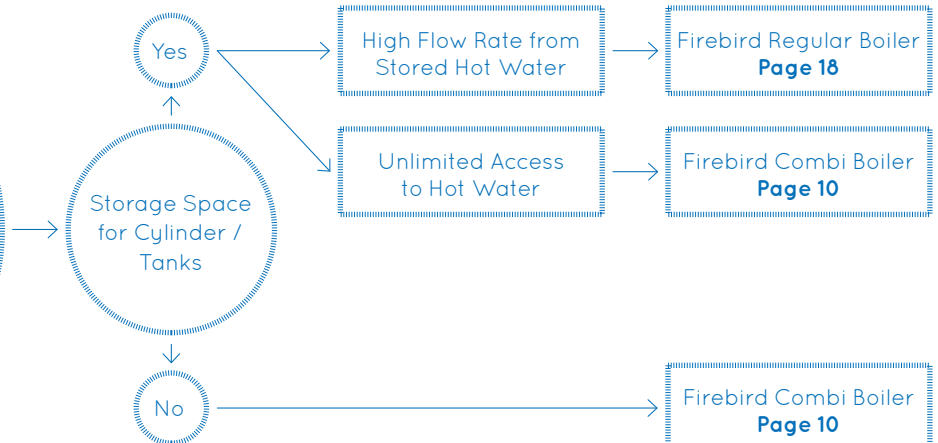
1

The size of the property and the number of occupants



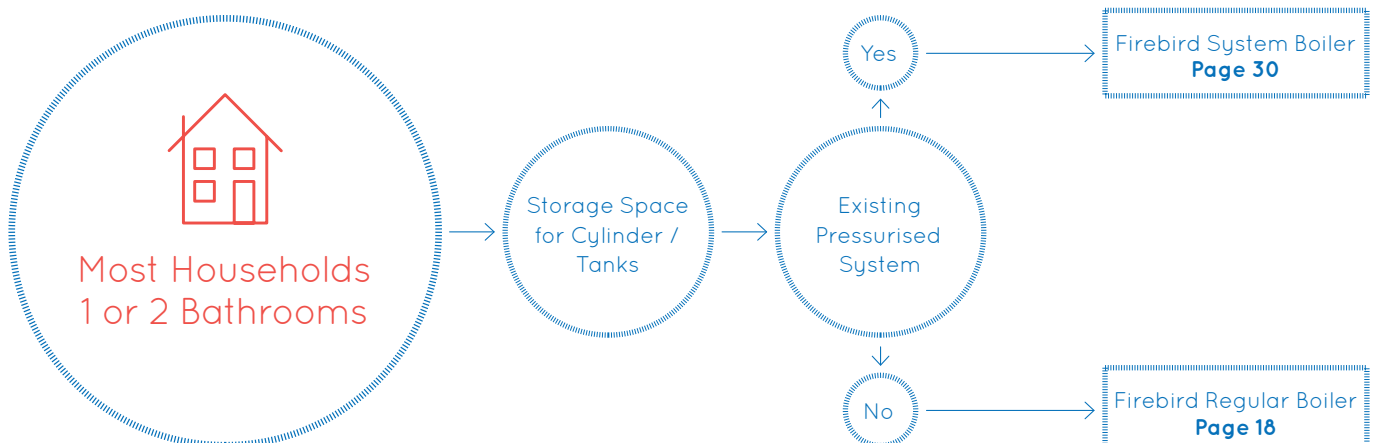
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The hot water and heating requirements for the property



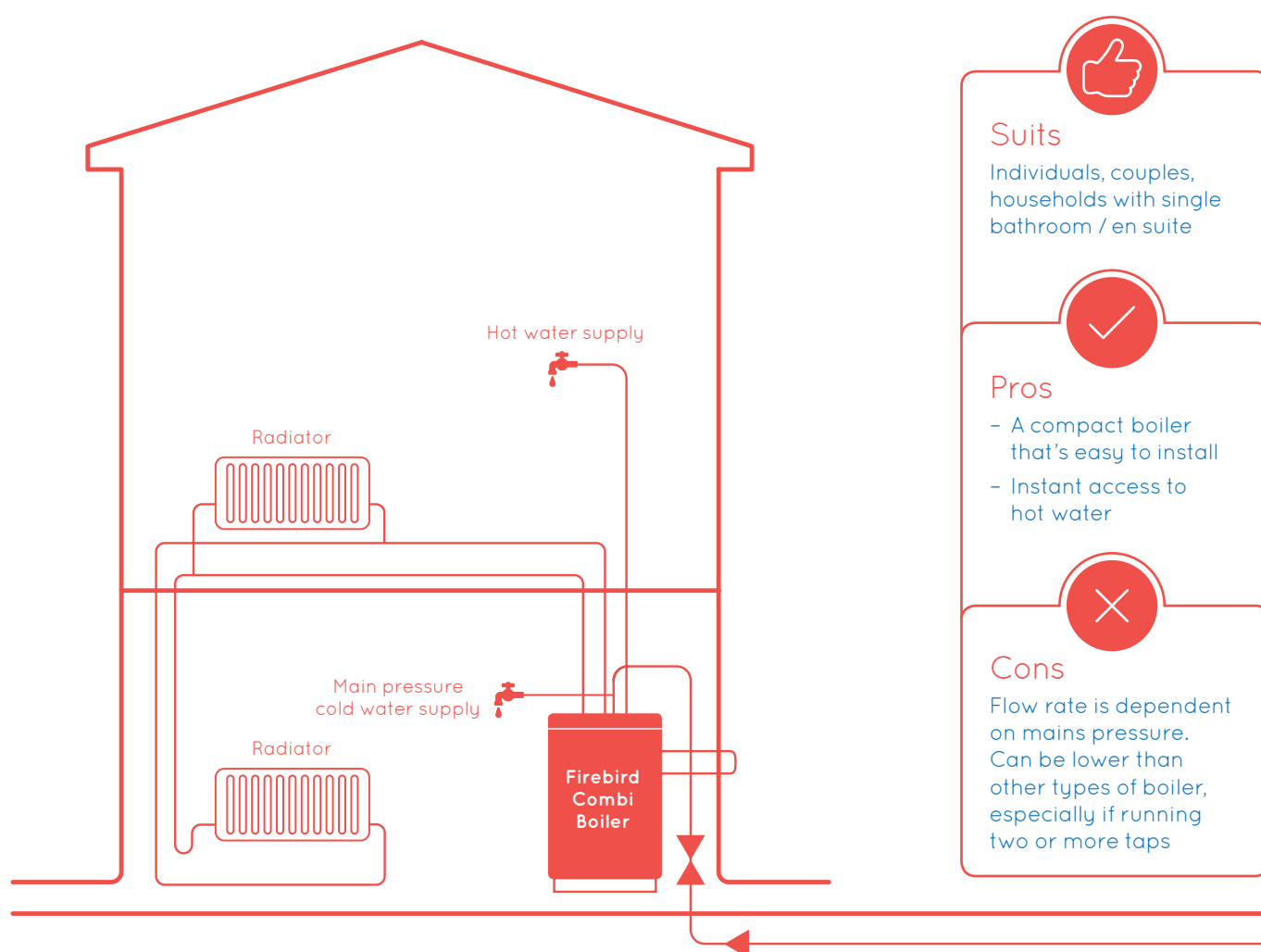
3

If the property is new build or if there is an existing heating system in place



## Combi Boilers

Found in over two thirds of homes in the UK, a Combi (Combination) Boiler is an instant domestic water heater and a central heating boiler combined. Water is heated directly via a thermal store when a tap is turned on, saving not only on cost, but also on the space required for a hot water storage tank. Providing instant access to hot water, this type of boiler is particularly suited to smaller households with one bathroom and shower / en suite.



Firebird Combi Boilers are available in both the **Enviroblue™** and **Enviromax™** product ranges, with models available for internal and external applications. Instant hot water draw-off is coupled with a rapid reheat of the water store, making the boiler more cost-effective to run due to its high levels of efficiency.

# Internal Combi Boilers

The Firebird ranges of internal Combi Boilers are available in Standard and Slimline widths making them ideal for both new build and retrofit applications. The sleek and stylish new design of the Standard Combi HE, complete with concealed control panel, won't look out of place in any kitchen or utility room. At just under 600mm in width it is easily incorporated into new or existing room configurations.

## Features & Benefits

- Blue flame and yellow flame options available
- Excellent hot water performance – up to 20 litres per minute on 35kW models
- Rapid reheat after hot water draw-off
- Standard and Slimline models
- Fully insulated and acoustically designed for ultra-quiet operation
- Durable casings with a high-quality finish
- PCB controller using highly accurate thermistors
- No flow switch – water flow is electronically detected
- Front service access
- Low pressure switch protects boiler in the unlikely event of system water loss
- Multi-directional flue options
- Robust 'positive shut-off' filling loop and check valve.\*
- State-of-the-art technology incorporating a single, high-efficiency Grundfos circulating pump ensures outstanding efficiency\*
- High-performance Riello RDB / RDB BLU burner complete with full diagnostic control box
- Models available in outputs of 20kW to 35kW

\* Standard HE models only



# Internal Combi Boilers

## Product Range

### Enviroblue™ Combi HE



ERP Rating



### Enviroblue™ Slimline Combi



ERP Rating



Enviroblue™ Model	Product Code	Heating Output Max.	Hot Water Flow Rate Ltr/min*	Seasonal Efficiency Ratings**	Weight kg	ERP Rating		Dimensions (mm)		
						Heating	Hot Water	H	W	D
Enviroblue™ Combi HE C20	BCE020DLX	20kW	16	93.0	167	A	B	845	595	614
Enviroblue™ Combi HE C26	BCE026DLX	26kW	16	93.0	170	A	B	845	595	614
Enviroblue™ Combi HE C35	BCE035DLX	35kW	20	93.0	173	A	B	845	595	614
Enviroblue™ Slimline Combi C20	BCE020SLM	20kW	12-14	92.5	165	A	B	855	520	600
Enviroblue™ Slimline Combi C26	BCE026SLM	26kW	16	92.5	168	A	B	855	520	600
Enviroblue™ Slimline Combi C35	BCE035SLM	35kW	16	91.0	172	A	B	855	520	600

\* Litres per minute at a temperature of 40°C Δt. Where water demand exceeds this, a flow restrictor is recommended to ensure a water supply at an adequate temperature.

\*\* SAP 2005 Seasonal Efficiency. Source: [www.ncm-pcdb.org.uk/sap](http://www.ncm-pcdb.org.uk/sap)





# Internal Combi Boilers Product Range

## Enviromax™ Combi HE

**RIELLO**



ERP Rating



## Enviromax™ Slimline Combi

**RIELLO**



ERP Rating



## Enviromax™ Model

Enviromax™ Model	Product Code	Heating Output Max.	Hot Water Flow Rate Ltr/min*	Seasonal Efficiency Rating**	Weight kg	ERP Rating		Dimensions (mm)		
						Heating	Hot Water	H	W	D
Enviromax™ Combi HE C20	CCE020DLX	20kW	16	93.0	167	A	B	845	595	614
Enviromax™ Combi HE C26	CCE026DLX	26kW	16	93.0	170	A	B	845	595	614
Enviromax™ Combi HE C35	CCE035DLX	35kW	20	93.0	173	A	B	845	595	614
Enviromax™ Slimline Combi C20	CC0020SLM	20kW	12-14	92.5	165	A	B	855	520	600
Enviromax™ Slimline Combi C26	CC0026SLM	26kW	16	92.5	168	A	B	855	520	600
Enviromax™ Slimline Combi C35	CC0035SLM	35kW	16	91.0	172	A	B	855	520	600

\* Litres per minute at a temperature of 40°C Δt. Where water demand exceeds this, a flow restrictor is recommended to ensure a water supply at an adequate temperature.

\*\* SAP 2005 Seasonal Efficiency. Source: [www.ncm-pcdb.org.uk/sap](http://www.ncm-pcdb.org.uk/sap)





# External Combi Boilers

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The Firebird ranges of external Combi Boilers are similar in specification to their equivalent internal models, with the addition of a built-in frost thermostat. There is no requirement to house the boiler in a building, so this option provides an ideal solution if internal space is at a premium. The boilers have removable sides for ease of access to any part of the unit. Piping can be carried out from the back or from underneath.

**Enviroblue™**

**Enviromax™**

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## Features & Benefits

- Blue flame and yellow flame options available
- Excellent hot water performance – up to 20 litres per minute on 35kW models
- Rapid reheat after hot water draw-off
- Fully insulated and acoustically designed for ultra-quiet operation
- High-quality weatherproof PVC coated casings
- PCB controller using highly accurate thermistors
- Removable sides for ease of access
- Multi-directional flue options
- Robust 'positive shut-off' filling loop and check valve\*
- State-of-the-art technology incorporating a single, high-efficiency Grundfos circulating pump ensures outstanding efficiency\*
- Low pressure switch protects boiler in the unlikely event of system water loss
- No flow switch – water flow is electronically detected
- Factory-fitted frost protection stat
- Stainless steel terminal guard
- High-performance Riello RDB / RDB BLU burner complete with full diagnostic control box
- Models available in outputs of 20kW to 35kW

\* Standard HE models only



# External Combi Boilers

## Product Range

### Enviroblue™ Combipac HE


**RIELLO**

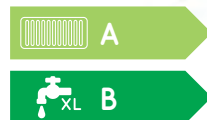

ERP Rating



### Enviromax™ Combipac HE

**RIELLO**


ERP Rating



#### Enviroblue™ Model

	Product Code	Heating Output Max.	Hot Water Flow Rate Ltr/min*	Seasonal Efficiency Ratings**	Weight kg	ERP Rating		Dimensions (mm)		
						Heating	Hot Water	H	W	D
Enviroblue™ Combipac HE C20	BCP020PAC	20kW	16	92.0	200	A	B	945	720	625
Enviroblue™ Combipac HE C26	BCP026PAC	26kW	16	92.0	200	A	B	945	720	625
Enviroblue™ Combipac HE C35	BCP035PAC	35kW	20	91.6	203	A	B	945	720	625

#### Enviromax™ Model

	Product Code	Heating Output Max.	Hot Water Flow Rate Ltr/min*	Seasonal Efficiency Ratings**	Weight kg	ERP Rating		Dimensions (mm)		
						Heating	Hot Water	H	W	D
Enviromax™ Combipac HE C20	CCE020CPK	20kW	16	92.0	200	A	B	945	720	625
Enviromax™ Combipac HE C26	CCE026CPK	26kW	16	92.0	200	A	B	945	720	625
Enviromax™ Combipac HE C35	CCE035CPK	35kW	20	91.6	203	A	B	945	720	625

\* Litres per minute at a temperature of 40°C Δt. Where water demand exceeds this, a flow restrictor is recommended to ensure a water supply at an adequate temperature.

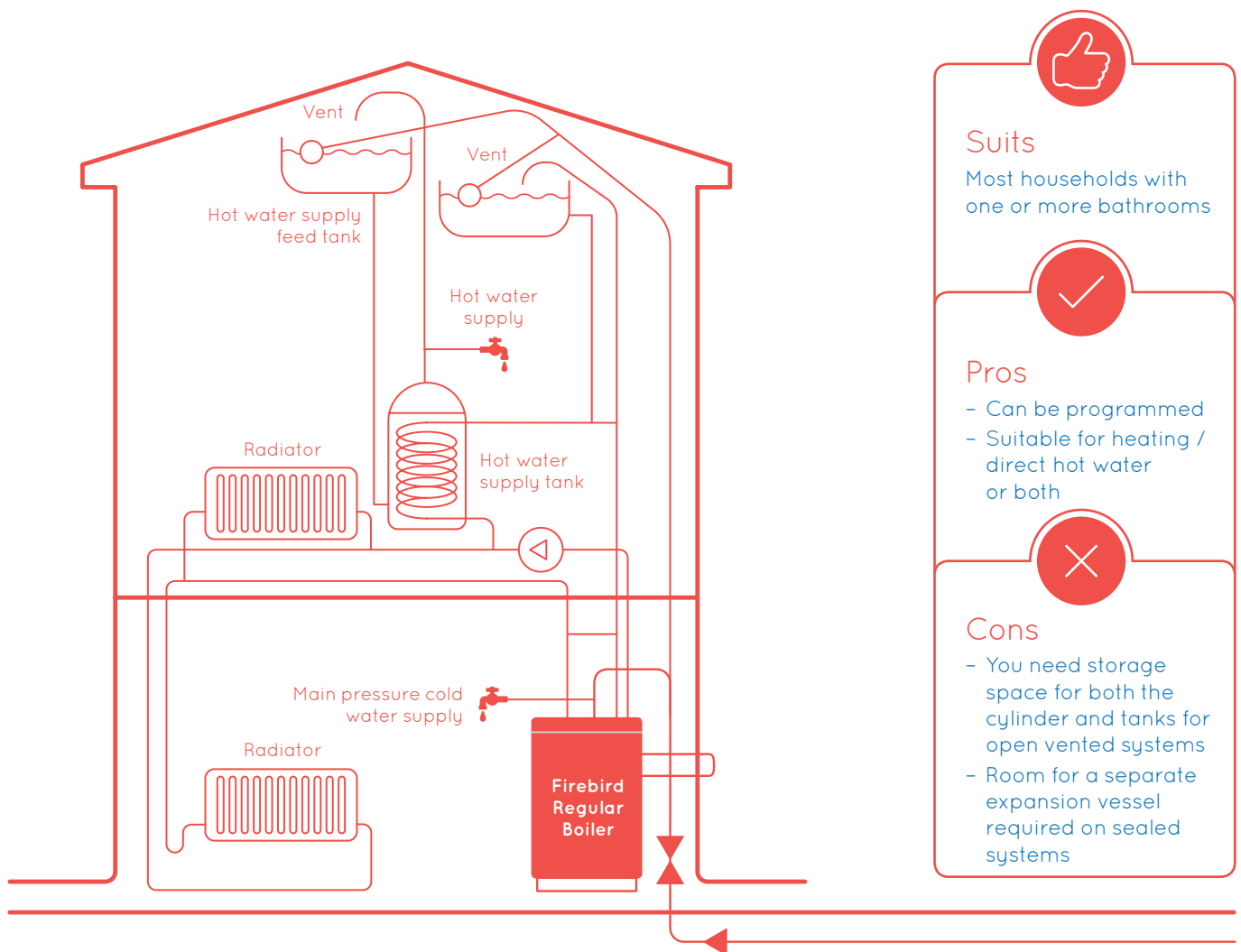
\*\* SAP 2005 Seasonal Efficiency. Source: [www.ncm-pcdb.org.uk/sap](http://www.ncm-pcdb.org.uk/sap)

## Regular 'Heat Only' Boilers

Regular Boilers, which are also referred to as a heat only, or conventional boilers are generally found in more traditional heating systems. Providing heat for radiators and separate hot water cylinders (usually located in an airing cupboard), they are installed as part of a system. Regular 'Heat Only' Boilers can form part of a sealed system or open vent system.

This type of heating system is particularly suited to larger households, with multiple bathrooms, as hot water is stored in a large volume cylinder capable of supporting multiple tap outlets at the same time.\*

### Example of an Open Vented System



Firebird Regular Boilers are available in the **Blue Supreme™**, **Enviroblue™**, **Enviromax™** and **Envirolite** product ranges with models available for internal, external and boilerhouse applications.

\* Dependent on system design & capabilities.

# Internal Regular Boilers

The Firebird ranges of internal Regular Boilers are manufactured with a high-quality, aesthetically pleasing finish that doesn't look out of place in a kitchen or utility room.

## Features & Benefits

- Blue flame and yellow flame options available
- Compact design – fits under standard kitchen worktop (outputs up to 35kW)
- Fully insulated and acoustically designed for ultra-quiet operation
- Durable casings with a high-quality finish
- PCB controller using highly accurate thermistors with anti-cycling function (outputs up to 35kW)\*
- Patented heat exchanger design
- Multiple tapping points for ease of installation
- Front service access
- Multi-directional flue options
- High-performance MHG\*/ Riello RDB BLU\*\*/Riello RDB burner complete with full diagnostic control box
- Models available in outputs of 12kW to 100kW

\* Blue Supreme models only

\*\*Enviroblue models up to 35kW output



**Blue Supreme™**

**Enviroblue™**

**Enviromax™**

**Envirolite**

# Internal Regular Boilers Product Range

## Blue Supreme™ Utility



Most efficient  
domestic boiler  
in Europe.

ERP Rating



## Enviroblue™ Kitchen



RIELLO

ERP Rating



### Blue Supreme™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Blue Supreme™ Utility C20	EBS020CUT	20kW	97.4	174	A	925	592	780
Blue Supreme™ Utility C26	EBS026CUT	26kW	97.4	174	A	925	592	780

### Enviroblue™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Enviroblue™ Kitchen C20	BK1020PCB	20kW	94.8	125	A	847	442	610
Enviroblue™ Kitchen C26	BK1026PCB	26kW	94.8	128	A	847	442	610
Enviroblue™ Kitchen C35	BK1035PCB	35kW	94.4	131	A	847	442	610



## Enviromax™ Kitchen

**RIELLO**


ERP Rating



## Envirolite Utility

**RIELLO**


ERP Rating



### Enviromax™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Enviromax™ Kitchen 12-18	CK1018DLX	12-18kW	95.2	115	A	847	345	610
Enviromax™ Kitchen C20	CK1020DLX	20kW	94.8	125	A	847	442	610
Enviromax™ Kitchen C26	CK1026DLX	26kW	94.8	128	A	847	442	610
Enviromax™ Kitchen C35	CK1035DLX	35kW	94.4	131	A	847	442	610
Enviromax™ Kitchen C44	CK1044DLX	44kW	93.6	210	A	1048	464	852
Enviromax™ Kitchen C58	CK1058DLX	58kW	92.7	216	A	1048	464	852
Enviromax™ Kitchen C73	CK1073DLX	73kW	92.0	242	A	1196	524	851
Enviromax™ Commercial Utility C100	CUT100NKT	100kW	n/a	390	A	1249	623	1071

### Envirolite Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Envirolite Utility CR20	CUT020NFT	12-20kW	93.8	125	A	845	442	610
Envirolite Utility CR26	CUT026NFT	20-26kW	93.7	128	A	845	442	610
Envirolite Utility CR35	CUT035NFT	26-35kW	92.9	131	A	845	442	610

 \* SAP 2005 Seasonal Efficiency. Source: [www.ncm-pcdb.org.uk/sap](http://www.ncm-pcdb.org.uk/sap)

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## External Regular Boilers

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The Firebird ranges of external Regular Boilers are similar in specification to their equivalent indoor models, with the addition of a built-in frost thermostat. There is no requirement to house the boiler in a building, so this option provides an ideal solution if internal space is at a premium. The boilers are available in Standard and Slimline widths, and have removable sides for ease of access to any part of the unit. Piping can be carried out from the back or from underneath.

**Blue Supreme™**

**Enviroblue™**

**Enviromax™**

**Envirolite**

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### Features & Benefits

- Blue flame and yellow flame options available
- Standard and Slimline models
- High-quality, weatherproof PVC coated casings (outputs up to 73kW / Slimline 35kW)
- Fully insulated and acoustically designed for ultra-quiet operation
- PCB controller using highly accurate thermistors with anti-cycling function (outputs up to 35kW)\*
- Multiple tapping points for ease of installation
- Factory-fitted frost protection stat
- Removable sides for ease of access
- Multi-directional flue options (except Slimline models)
- Stainless steel terminal guard
- High-performance MHG\*/ Riello RDB BLU\*\*/Riello RDB burner complete with full diagnostic control box
- Models available in outputs of 12kW to 73kW

\* Blue Supreme models only

\*\*Enviroblue models up to 35kW output



## External Regular Boilers Product Range

### Blue Supreme™ Slimline Heatpac



ERP Rating

A

### Enviroblue™ Heatpac



ERP Rating

A

#### Blue Supreme™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Blue Supreme™ Slimline Heatpac C20	EBS020SLM	20kW	97.4	180	A	930	595	916
Blue Supreme™ Slimline Heatpac C26	EBS026SLM	26kW	97.4	180	A	930	595	916

#### Enviroblue™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Enviroblue™ Heatpac C20	BHP020HPK	20kW	94.8	154	A	945	720	625
Enviroblue™ Heatpac C26	BHP026HPK	26kW	94.8	154	A	945	720	625
Enviroblue™ Heatpac C35	BHP035HPK	35kW	94.4	158	A	945	720	625



## Enviroblue™ Slimline Heatpac


**RIELLO**


ERP Rating



## Enviromax™ Heatpac

**RIELLO**


ERP Rating



### Enviroblue™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Enviroblue™ Slimline Heatpac C20	BHP020SLM	20kW	93.0	147	A	920	465	760
Enviroblue™ Slimline Heatpac C26	BHP026SLM	26kW	93.0	150	A	920	465	760
Enviroblue™ Slimline Heatpac C35	BHP035SLM	35kW	92.0	153	A	920	465	760

### Enviromax™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Enviromax™ Heatpac 12-18kW	CON018HPK	12-18kW	95.2	134	A	945	620	625
Enviromax™ Heatpac C20	CON020HPK	20kW	94.8	154	A	945	720	625
Enviromax™ Heatpac C26	CON026HPK	26kW	94.8	154	A	945	720	625
Enviromax™ Heatpac C35	CON035HPK	35kW	94.4	158	A	945	720	625
Enviromax™ Heatpac C44	CON044HPK	44kW	93.6	244	A	1074	839	855
Enviromax™ Heatpac C58	CON058HPK	58kW	92.7	250	A	1074	839	855
Enviromax™ Heatpac C73	CON073HPK	73kW	92.0	280	A	1200	903	855

 \* SAP 2005 Seasonal Efficiency. Source: [www.ncm-pcdb.org.uk/sap](http://www.ncm-pcdb.org.uk/sap)

## External Regular Boilers Product Range

### Enviromax™ Slimline Heatpac

**RIELLO**



ERP Rating



### Envirolite Silverpac

**RIELLO**



ERP Rating



#### Enviromax™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Enviromax™ Slimline Heatpac C20	CON020SLM	20kW	93.0	147	A	920	465	760
Enviromax™ Slimline Heatpac C26	CON026SLM	26kW	93.0	150	A	920	465	760
Enviromax™ Slimline Heatpac C35	CON035SLM	35kW	92.0	153	A	920	465	760

#### Envirolite Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Envirolite Silverpac CR20	FSP020RDB	12-20kW	93.8	131	A	945	720	625
Envirolite Silverpac CR26	FSP026RDB	20-26kW	93.7	154	A	945	720	625
Envirolite Silverpac CR35	FSP035RDB	26-35kW	92.9	158	A	945	720	625

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# Boilerhouse Regular Boilers

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The Firebird range of boilerhouse models are similar in energy output to their equivalent external models and are ideal for installation in a dedicated boilerhouse, garage or outbuilding. Flow and return pipework can be connected on either side of the boiler for retrofit and flexibility.

**Blue Supreme™**

**Enviroblue™**

**Enviromax™**

**EnviroLite**

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## Features & Benefits

- Blue flame and yellow flame options available
- Constructed using premium quality steel
- Fully insulated casing minimises heat loss
- PCB controller using highly accurate thermistors with anti-cycling function (outputs up to 35kW)\*
- Multiple tapping points for ease of installation
- Patented heat exchanger design
- Multi-directional flue options
- High-performance MHG\*/ Riello RDB BLU\*\*/Riello RDB burner complete with full diagnostic control box
- Models available in outputs of 12kW to 100kW

\* Blue Supreme models only

\*\*Enviroblue models up to 35kW output

# Boilerhouse Regular Boilers Product Range

## Blue Supreme™ Popular



## Enviroblue™ Popular



### Blue Supreme™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Blue Supreme™ Popular C20	EBS020POP	20kW	97.4	175	A	930	595	760
Blue Supreme™ Popular C26	EBS026POP	26kW	97.4	175	A	930	595	760

### Enviroblue™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Rating	Weight kg (including burner)	ERP Rating	Dimensions (mm)			Burner Depth
					Heating	H	W	D	
Enviroblue™ Popular C20	BBH020RBG	20kW	94.8	107	A	684	441	381	202
Enviroblue™ Popular C26	BBH026RBG	26kW	94.8	112	A	684	441	381	202
Enviroblue™ Popular C35	BBH035RBG	35kW	94.4	115	A	684	441	381	202



## Enviromax™ Popular

**RIELLO**


ERP Rating


**A**

## Envirolite Boilerhouse

**RIELLO**


ERP Rating


**A**

### Enviromax™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg (including burner)	ERP Rating	Dimensions (mm)			Burner Depth
					Heating	H	W	D	
Enviromax™ Popular 12-18kW	CP0018RDB	12-18kW	95.2	99	A	684	344	381	202
Enviromax™ Popular C20	CP0020RDB	20kW	94.8	107	A	684	441	381	202
Enviromax™ Popular C26	CP0026RDB	26kW	94.8	112	A	684	441	381	202
Enviromax™ Popular C35	CP0035RDB	35kW	94.4	115	A	684	441	381	202
Enviromax™ Popular C44	CP0044RDB	44kW	93.6	182	A	815	470	531	202
Enviromax™ Popular C58	CP0058RDB	58kW	92.7	190	A	815	470	533	253
Enviromax™ Popular C73	CP0073RDB	73kW	92.0	210	A	873	530	527	253
Enviromax™ Popular C100	CP0100RDB	100kW	n/a	300	A	1052	625	746	253

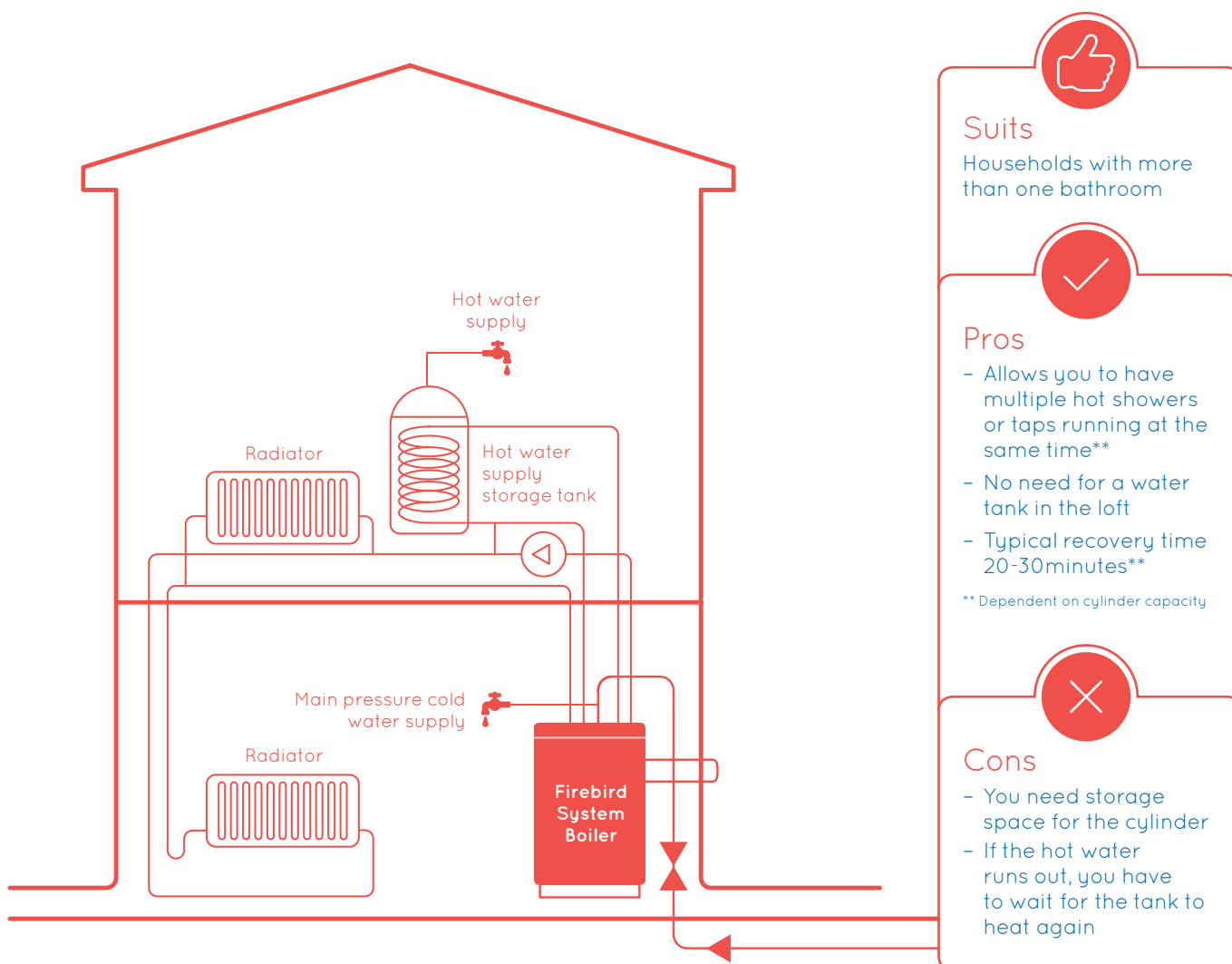
### Envirolite Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg (including burner)	ERP Rating	Dimensions (mm)			Burner Depth
					Heating	H	W	D	
Envirolite Boilerhouse CR20	FSB020RDB	20kW	93.8	107	A	684	441	381	202
Envirolite Boilerhouse CR26	FSB026RDB	26kW	93.7	112	A	684	441	381	202
Envirolite Boilerhouse CR35	FSB035RDB	35kW	92.9	115	A	684	441	381	202

 \* SAP 2005 Seasonal Efficiency. Source: [www.ncm-pcdb.org.uk/sap](http://www.ncm-pcdb.org.uk/sap)

## Regular System Boilers

A System Boiler which is also referred to as a 'sealed system boiler', provides central heating and direct hot water via a storage cylinder, which is usually housed in an airing cupboard. Unlike a regular boiler heating system, there is no requirement to have water tanks situated in the loft. System boilers are generally easier to install, as the heating and hot water system components form an integral part of the boiler itself. This type of heating system is particularly suited to households with multiple bathrooms (providing adequate cylinder capacity is installed) as you can have multiple taps, baths or showers running at the same time.\*



Firebird System Boilers are available in the **Enviroblue™** and **Enviromax™** product ranges with models available for internal and external applications. A factory-fitted expansion vessel, circulating pump, relief valve, low pressure switch and filling loop come as standard, saving space and installation time.

\* Dependent on system design & capabilities.

# Internal System Boilers

The Firebird ranges of internal System Boilers are manufactured with a high-quality, aesthetically pleasing finish that doesn't look out of place in a kitchen or utility room.

## Features & Benefits

- Blue flame and yellow flame options available
- Compact design – fits under standard kitchen worktop (outputs up to 35kW)
- Fully insulated and acoustically designed for ultra-quiet operation
- Durable casings with a high-quality finish
- PCB controller using highly accurate thermistors with anti-cycling function (outputs up to 35kW)
- Patented heat exchanger design
- Front service access
- Factory-fitted expansion vessel and circulating pump
- Low pressure switch protects boiler in the unlikely event of system water loss
- Multi-directional flue options
- High-performance Riello RDB / RDB BLU\* burner complete with full diagnostic control box
- Models available in outputs of 20kW to 44kW

\* Available up to 35kW output



# Internal System Boilers Product Range

## Enviroblue™ System



**RIELLO**



ERP Rating



## Enviromax™ System

**RIELLO**



ERP Rating



### Enviroblue™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Enviroblue™ System C20	BSB020NKT	20kW	94.8	143	A	844	442	610
Enviroblue™ System C26	BSB026NKT	26kW	94.8	146	A	844	442	610
Enviroblue™ System C35	BSB035NKT	35kW	94.4	149	A	844	442	610

### Enviromax™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Enviromax™ System C20	CSB020DLX	20kW	94.8	143	A	844	442	610
Enviromax™ System C26	CSB026DLX	26kW	94.8	146	A	844	442	610
Enviromax™ System C35	CSB035DLX	35kW	94.4	149	A	844	442	610
Enviromax™ System C44	CSB044DLX	44kW	93.6	235	A	1046	660	852

\* SAP 2005 Seasonal Efficiency. Source: [www.ncm-pcdb.org.uk/sap](http://www.ncm-pcdb.org.uk/sap)





# External System Boilers

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The Firebird ranges of external System Boilers are similar in specification to their equivalent indoor models, with the addition of a built-in frost thermostat. There is no requirement to house the boiler in a building, so this option provides an ideal solution if internal space is at a premium. The boilers are available in Standard or Slimline widths and have removable sides for ease of access to any part of the unit. Piping can be carried out from the back or from underneath.

**Enviroblue™**

**Enviromax™**

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## Features & Benefits

- Blue flame and yellow flame options available
- Standard and Slimline models
- High-quality, weatherproof PVC coated casings
- Factory-fitted expansion vessel and circulating pump
- Fully insulated and acoustically designed for ultra-quiet operation
- PCB controller using highly accurate thermistors with anti-cycling function (outputs up to 35kW)
- Patented heat exchanger design
- Factory-fitted frost protection stat
- Removable sides for ease of access
- Low pressure switch protects boiler in the unlikely event of system water loss
- Multi-directional flue options (except Slimline models)
- Stainless steel terminal guard
- High-performance Riello RDB / RDB BLU\* burner complete with full diagnostic control box
- Models available in outputs of 20kW to 44kW

\* Available up to 35kW output.





## External System Boilers Product Range

### Enviroblue™ Systempac



### Enviroblue™ Slimline Systempac



#### Enviroblue™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Enviroblue™ Systempac C20	BSP020PAC	20kW	94.8	163	A	945	720	625
Enviroblue™ Systempac C26	BSP026PAC	26kW	94.8	163	A	945	720	625
Enviroblue™ Systempac C35	BSP035PAC	35kW	94.4	166	A	945	720	625

#### Enviroblue™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Enviroblue™ Slimline Systempac C20	BSP020SLM	20kW	93.0	147	A	920	465	760
Enviroblue™ Slimline Systempac C26	BSP026SLM	26kW	93.0	150	A	920	465	760
Enviroblue™ Slimline Systempac C35	BSP035SLM	35kW	92.0	153	A	920	465	760



## Enviromax™ Systempac

**RIELLO**



ERP Rating

A

## Enviromax™ Slimline Systempac

**RIELLO**



ERP Rating

A

### Enviromax™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Enviromax™ Systempac C20	CSP020NKT	20kW	94.8	163	A	945	720	625
Enviromax™ Systempac C26	CSP026NKT	26kW	94.8	163	A	945	720	625
Enviromax™ Systempac C35	CSP035NKT	35kW	94.4	166	A	945	720	625
Enviromax™ Systempac C44	CSP044NKT	44kW	93.6	270	A	1074	839	853

### Enviromax™ Model

	Product Code	Heating Output Max.	Seasonal Efficiency Ratings*	Weight kg	ERP Rating	Dimensions (mm)		
					Heating	H	W	D
Enviromax™ Slimline Systempac C20	CSP020SLM	20kW	93.0	147	A	920	465	760
Enviromax™ Slimline Systempac C26	CSP026SLM	26kW	93.0	150	A	920	465	760
Enviromax™ Slimline Systempac C35	CSP035SLM	35kW	92.0	153	A	920	465	760

# Technical Specification

## Blue Supreme™ & Enviroblue™ Product Ranges

	Blue Supreme <sup>™</sup> Regular Boilers			Enviroblue <sup>™</sup> Regular Boilers			Enviroblue <sup>™</sup> System Boilers			Enviroblue <sup>™</sup> Combi Boilers			Enviroblue <sup>™</sup> Slimline Combi Boilers		
Heat Output	kW			20	26	35	20	26	35	20	26	35	20	26	35
Connections															
Heating Flow	1" BSP 1" BSP			1" BSP 1" BSP 1" BSP			22mm 22mm 22mm			22mm 22mm 28mm			22mm 22mm 22mm		
Heating Return	1" BSP 1" BSP			1" BSP 1" BSP 1" BSP			1" BSP 1" BSP 1" BSP			22mm 22mm 28mm			22mm 22mm 22mm		
Mains Cold Feed (Copper)	- -			- - -			15mm 15mm 15mm			15mm 15mm 15mm			15mm 15mm 15mm		
Hot Water Delivery (Copper)	- -			- - -			- - -			15mm 15mm 15mm			15mm 15mm 15mm		
Drain Off Valve	½" BSP ½" BSP			½" BSP ½" BSP ½" BSP			½" BSP ½" BSP ½" BSP			½" BSP ½" BSP ½" BSP			½" BSP ½" BSP ½" BSP		
Safety Pressure Valve Outlet (Copper)	- -			- - -			15mm 15mm 15mm			15mm 15mm 15mm			15mm 15mm 15mm		
Condensate Trap	22mm Plastic			22mm Plastic			22mm Plastic			22mm Plastic			22mm Plastic		
Circulating Pump															
Domestic Hot Water Plate Heat Exchanger	- -			- - -			- - -			25/60			25/60 x 2		
Integral Expansion Vessel Normal Capacity	- -			- - -			12 litres			25 plate 25 plate 31 plate			25 plate 25 plate 31 plate		
Low Pressure Water Switch?	✗ ✗			✗ ✗ ✗			✓ ✓ ✓			✓ ✓ ✓			✓ ✓ ✓		
Filling loop Included?	✗ ✗			✗ ✗ ✗			✓ ✓ ✓			✓ ✓ ✓			✓ ✓ ✓		
Water Content															
Boiler (Litres)	24 24			24 24 24			24 24 24			24 24 24			24 24 24		
Primary Tank:	- -			- - -			- - -			✓ ✓ ✓			✓ ✓ ✓		
Combi / Combipac (Litres)	- -			- - -			- - -			20			- - -		
Slimline Combi (Litres)	- -			- - -			- - -			- - -			11		
DHW Guide Performance*															
in litres/min (120 litre draw-off at 40°C Δt.)	- -			- - -			- - -			- - -			- - -		
Combi / Combipac	- -			- - -			- - -			16 16 20			- - -		
Slimline Combi	- -			- - -			- - -			- - -			12/14 12/14 16		
Flue (Internal Boilers)															
Balanced Flue Assembly (mm)	125 (5") 125 (5")			125 (5") 125 (5") 125 (5")			125 (5") 125 (5") 125 (5")			125 (5") 125 (5") 125 (5")			125 (5") 125 (5") 125 (5")		
Max. Low Level Flue Length (metres)	1.5 1.5			1.5 1.5 1.5			1.5 1.5 1.5			1.5 1.5 1.5			1.5 1.5 1.5		
Max. High Level Flue Length (metres)	6 6			6 6 6			6 6 6			6 6 6			6 6 6		
Max. Vertical Level Flue Length (metres)	6 6			6 6 6			6 6 6			6 6 6			6 6 6		
Heating System (Sealed)															
Fit in accordance with BS 7047 Part 1, BS 5449, OFTEC standards and all other relevant legislation.															
Max. Operating Pressure				-			2.5 bar			2.5 bar					
Max. System Pressure Cold				-			1.5 bar			1.5 bar					
Min. System Pressure Cold				-			0.5 bar			0.5 bar					
Preset Pressure Relief Valve				-			3 bar			3 bar					
Mains Water Supply Pressure															
-															
Water Side Resistance															
Flow Rate to give a Nominal Output at 10k Differential															
	1642	2135		1642	2135	2874	1642	2135	2874	1642	2135	2874	1642	2135	2874
	kg/h	kg/h		kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h
	0.18 mbar														
Flow Rate to give a Nominal Output at 20k Differential															
	870	1131		870	1131	1523	870	1131	1523	870	1131	1523	870	1131	1523
	kg/h	kg/h		kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h
	0.19 mbar														
Pressure Jet Oil Boilers															
	MHG	MHG		Riello	Riello	Riello	Riello	Riello	Riello	Riello	Riello	Riello	Riello	Riello	Riello
	RHE	RHE		RDB2.2	RDB2.2	RDB2.2	RDB2.2	RDB2.2	RDB2.2	RDB2.2	RDB2.2	RDB2.2	RDB2.2	RDB2.2	RDB2.2
	1.20	1.26		BG1	BG2	BG3	BG1	BG2	BG3	BG1	BG2	BG3	BG1	BG2	BG3
	HG	HG													
Fuel	C2 Kerosene														
Electrical Supply	230V AC 50Hz 5A														
Frost Thermostats															
Boiler safety limit, frost and over-run thermostats fitted on all Heatpac Models															
Frost stat fitted to all external models															
Boiler Safety Limit	110°C			110°C			110°C			110°C			110°C		
Tank (DHW) – Fixed	-			-			-			78°C			78°C		
Early Alert – Fixed	-			-			-			87°C			87°C		
Over-run – Fixed	-			87°C (Kitchen only)			87°C			93°C			93°C		

\* Where water demand exceeds this, a flow restrictor is recommended. This will ensure water supply at an adequate temperature.

# Technical Specification

## Enviromax™ & Envirolite Product Ranges

	Enviromax. Combi Boilers		Enviromax. System Boilers			Enviromax. & Envirolite Regular Boilers					
Heat Output	kW		12-20+20-26	26-35	35-44	12-18	12-20+20-26	26-35	35-44+44-58	58-73	80-100
Connections											
Heating Flow	22mm	28mm	22mm	28mm	1½" BSP	1" BSP	1" BSP	1" BSP	1½" BSP	1½" BSP	2" BSP
Heating Return	22mm	28mm	1" BSP	1" BSP	1½" BSP	1" BSP	1" BSP	1" BSP	1½" BSP	1½" BSP	2" BSP
Mains Cold Feed (Copper)	15mm	15mm	15mm	15mm	15mm	-	-	-	-	-	-
Hot Water Delivery (Copper)	15mm	15mm	-	-	-	-	-	-	-	-	-
Drain Off Valve	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP
Safety Pressure Valve Outlet (Copper)	15mm	15mm	15mm	15mm	15mm	-	-	-	-	-	-
Condensate Trap	22mm Plastic		22mm Plastic			-	-	-	-	-	-
Circulating Pump	25/60(x2) • 25/60(x2) •		25/60	25/60	25/80	-	-	-	-	-	-
Domestic Hot Water Plate Heat Exchanger	25 plate	31 plate	-	-	-	-	-	-	-	-	-
Integral Expansion Vessel Normal Capacity	12 litres	12 litres	12 litres	12 litres	18 litres	-	-	-	-	-	-
Expansion Vessel Pre-charge Pressure	1 bar	1 bar	1 bar	1 bar	1 bar	-	-	-	-	-	-
Low Pressure Water Switch?	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗
Filling loop Included?	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗
Water Content											
Boiler (Litres)	24	24	24	24	45	24	24	24	43.5	54	75
Primary Tank: Combi/Combipac (Litres)	20	20	-	-	-	-	-	-	-	-	-
Slimline Combi (Litres)	11	11	-	-	-	-	-	-	-	-	-
DHW Guide Performance*											
in litres/min (120 litre draw-off at 40°C Δt.)	-	-	-	-	-	-	-	-	-	-	-
Combi / Combipac	16	20	-	-	-	-	-	-	-	-	-
Slimline Combi	12/14	16	-	-	-	-	-	-	-	-	-
Flue (Internal Boilers)											
Balanced Flue Assembly (mm)	125 (5")	125 (5")	125 (5")	125 (5")	150 (6")	125 (5")	125 (5")	125 (5")	150 (6")	180 (7")	200 (8")
Max. Low Level Flue Length (metres)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Max. High Level Flue Length (metres)	6	6	6	6	4	6	6	6	4	4	4
Max. Vertical Level Flue Length (metres)	6	6	6	6	4	6	6	6	4	4	4
Integral flues on Heatpac Models	-	-	-	-	-	-	-	-	-	-	-
Heating System (Sealed)											
Fit in accordance with BS 7047 Part 1, BS 5449, OFTEC standards and all other relevant legislation.											
Max. Operating Pressure	2.5 bar		2.5 bar			-					
Max. System Pressure Cold	1.5 bar		1.5 bar			-					
Min. System Pressure Cold	0.5 bar		0.5 bar			-					
Preset Pressure Relief Valve	3 bar		3 bar			-					
Mains Water Supply Pressure											
Min. 1 bar – Max. 10 bar (for user comfort, we recommend pressure at tap to be between 2 and 5 bar). Limescale excess: When over 150/200 ppm, fit appropriate scale reducer.											
Water Side Resistance											
Flow Rate to give a Nominal Output at 10k Differential						20kW		26kW		35kW	
Flow Rate Measured (Kg h-1)						1642		2135		2874	
Waterside Resistance (mbar)						0.18		0.18		0.18	
Flow Rate to give a Nominal Output at 20k Differential						20kW		26kW		35kW	
Flow Rate Measured (Kg h-1)						870		1131		1523	
Waterside Resistance (mbar)						0.19		0.19		0.19	
Pressure Jet Oil Boilers											
RIELLO RDB 2.2 up to C44 & RIELLO RDB 4.2 from C58 to C100											
Fuel	C2 Kerosene										
Electrical Supply	230V AC 50Hz 5A										
Frost Thermostats											
Boiler safety limit, frost and over-run thermostats fitted on all Heatpac Models											
Frost stat fitted to all external models											
Boiler Central heating Control	60°C – 80°C		60°C – 80°C			60°C – 80°C					
Boiler Safety Limit	110°C		110°C			110°C					
Tank (DHW) – Fixed	78°C										
Early Alert – Fixed	87°C										
Over-run – Fixed	93°C		87°C			87°C (Heatpac, Slimline Heatpac & Kitchen only)					

\* Where water demand exceeds this, a flow restrictor is recommended. This will ensure water supply at an adequate temperature.

• Enviromax Slimline Combi Boilers.

## Condensing Flue Kits

Firebird Products Ltd offer a comprehensive range of plastic and stainless steel condensing flue kits to complement the extensive range of oil-fired boilers. A flue is a critical part of boiler installation and a necessary requirement to remove gases created during the combustion process. A correctly installed flue will also ensure the clean and efficient operation of the boiler, resulting in optimum boiler performance and a longer design life. An incorrect installation will result in the boiler warranty becoming invalid.



NB: Only Firebird-approved flue kits and accessories may be used on Firebird boilers. Use of unapproved flue kits may invalidate the boiler warranty policy.

## Plas-Fit Plastic Flue Kits & Accessories

### Suitable for Enviroblue™, Enviromax™ and Envirolite Condensing Boilers

Firebird was the first oil boiler manufacturer to introduce plastic flue kits to the UK market. The Plast-Fit range of plastic balanced flue kits provides flexibility, ease of installation and an aesthetically pleasing high-quality finish. Available in both Low Level and High Level options, the Plas-Fit flue kits are suitable for use with the **Enviroblue™**, **Enviromax™** and **Envirolite** range of boilers in outputs from 12kW to 35kW.

CPF005HHL



CPF005VHL



PDK005CPF



Product Code	Product Description
<b>12-35kW</b>	<b>KITS (125mm dia)</b>
CPF005KIT	PLAS-FIT Low Level Balanced Flue Kit (1 metre)
CPF005VHL	PLAS-FIT Vertical Balanced Flue Kit (3 metres)
CPF005HHL	PLAS-FIT High Level Flue Kit
<b>12-35kW</b>	<b>ACCESSORIES (125mm dia)</b>
CPF005EXA	PLAS-FIT Extension, 1000mm
CPF005EXB	PLAS-FIT Extension 500mm
CPF455ELB	PLAS-FIT 45 degree Elbow (pair)
CPF905ELB	PLAS-FIT 90 degree Elbow
CPF005WBK	Wall Bracket to suit PLAS-FIT
<b>12-35kW</b>	<b>PLUME DISPERSAL (80mm dia)</b>
PDK005CPF	PLAS-FIT Plume Management Kit
PDK045PBD	80mm Plas-Fit Plume 45 degree Elbow
PDK090PBD	80mm Plas-Fit Plume 90 degree Elbow
PDK005PXA	80mm Plas-Fit Plume 1000mm Extension
PDK005PWB	80mm Plas-Fit Plume Wall Bracket



## Stainless Steel Flue Kits & Accessories

The Firebird range of stainless steel flue kits and accessories are suitable for use with the **Enviroblue™**, **Enviromax™** and **Envirolite** ranges of boilers. Stainless steel flue kits are available for the following applications:

- Low level flue (including plume dispersal)
- Conventional flue
- High level flue (vertical & horizontal)

### Low Level Flue Kits

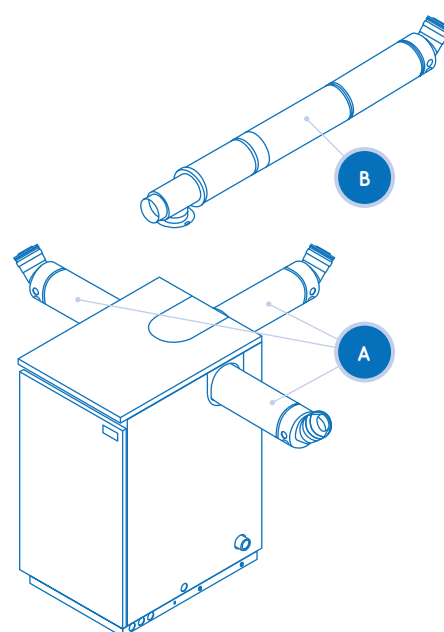
Low level flue kits have become popular in recent years due to their convenient size and ease of installation. When installing a condensing low level flue, consideration should be given to the discharge of the condensate plume. In some circumstances a plume dispersal kit may be necessary.

Product Code	Product Description
<b>20-35kW KITS AND EXTENSIONS (125mm dia)</b>	
<b>A</b> CBF005KIT	Low Level Flue Kit 380-600mm Stainless Steel Guard inc.
<b>A</b> CBF005SKT	Low Level Flue Kit (short) 200-280mm Stainless Steel Guard inc.
<b>B</b> CBF005EXT	450mm Extension for Low Level Flue Kit.
<b>44-58kW KITS AND EXTENSIONS (150mm dia)</b>	
<b>A</b> CBF006KIT	Low Level Flue Kit 380-600mm Stainless Steel Guard inc.
<b>A</b> CBF006SKT	Low Level Flue Kit (short) 200-280mm Stainless Steel Guard inc.
<b>B</b> CBF006EXT	450mm Extension for Low Level Flue Kit.
<b>73kW KITS AND EXTENSIONS (185mm dia)</b>	
<b>A</b> CBF007KIT	Low Level Flue Kit 380-600mm Stainless Steel Guard inc.
<b>A</b> CBF007SKT	Low Level Flue Kit (short) 200-280mm Stainless Steel Guard inc.
<b>B</b> CBF007EXT	450mm Extension for Low Level Flue Kit.

#### \*A – Low Level Flue Kit

All low level flue kits contain:

- Telescopic balanced flue with Venturi Insert
- Terminal Guard
- Deflector Plate
- Silicone Lubricant
- Jubilee Clip for Air Snorkel
- Assembly Instructions

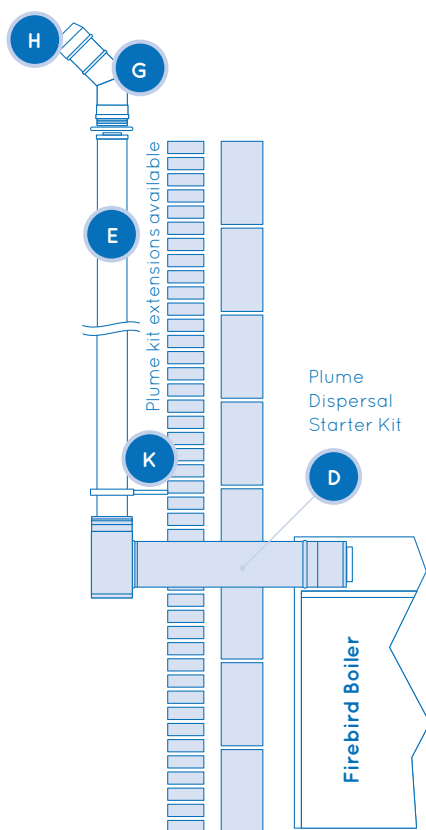


**NB:** Only Firebird-approved flue kits and accessories may be used on Firebird boilers. Use of unapproved flue kits may invalidate the boiler warranty policy.

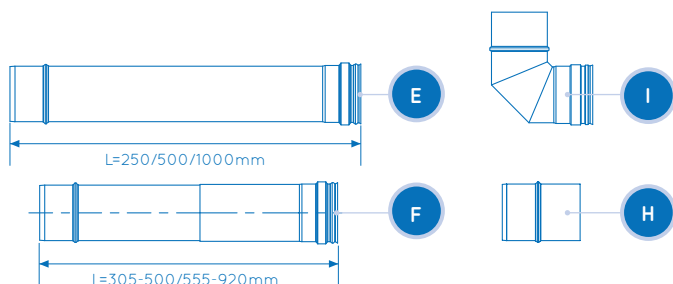
## Stainless Steel Flue Kits & Accessories

### Plume Dispersal Kits

A plume dispersal kit can be connected to the exhaust terminal of a low level flue in order to discharge flue gases (plume) up, over head height and neighbouring properties. Plume dispersal options can be used with a kit or retrofitted to an existing concentric flue.



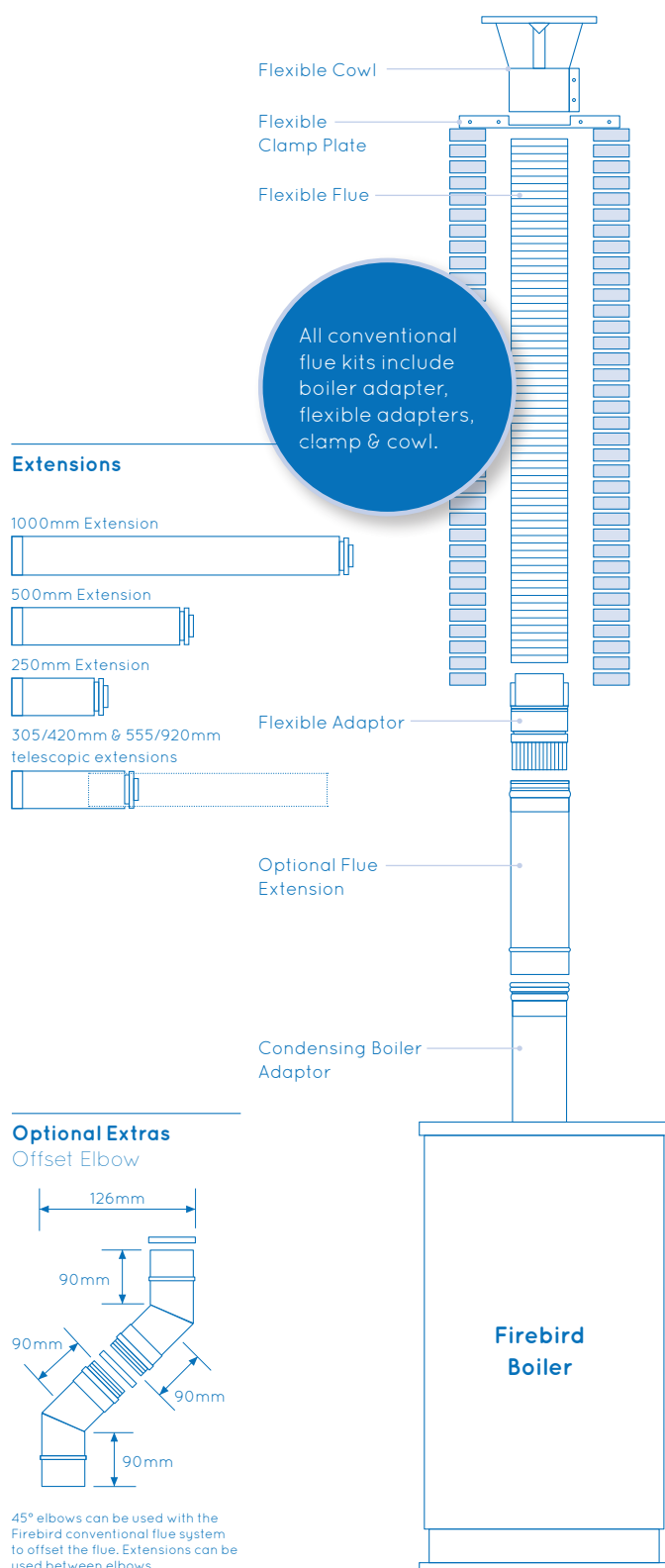
### Other components available



Product Code	Product Description
<b>12-35kW KIT AND EXTENSIONS (80mm dia)</b>	
D PDK125KIT	5" Plume Dispersal Balanced Flue Starter Kit
E PDK250KIT	250mm length
E PDK500KIT	500mm length
E PDK1000KT	1000mm length
F PDK420KIT	305/420 adjustable length
F PDK920KIT	555/920 adjustable length
G PDK045BND	45 degree Bend
H PDK000HLE	Terminal Insert
I PDK090BND	90 degree Bend
J PDK000CHC	Cowl
K PDK000WBK	Wall Bracket
PDK080POP	Boiler Plume Flue Adaptor
<b>44-58kW KIT AND EXTENSIONS (100mm dia)</b>	
D PDK150KIT	Plume Dispersal Balanced Flue Starter Kit
E PDK256KIT	250mm length
E PDK506KIT	500mm length
E PDK1006KT	1000mm length
F PDK426KIT	305/420 adjustable length
F PDK926KIT	555/920 adjustable length
G PDK456BND	45 degree Bend
H PDK006HLE	Terminal Insert
I PDK906BND	90 degree Bend
J PDK006CHC	Cowl
K PDK006WBK	Wall Bracket
PDK100POP	Boiler Plume Flue Adaptor
<b>73kW KIT AND EXTENSIONS (125mm dia)</b>	
D PDK180KIT	Plume Dispersal Balanced Flue Starter Kit
E PDK257KIT	250mm length
E PDK507KIT	500mm length
E PDK1007KT	1000mm length
F PDK427KIT	305/420 adjustable length
F PDK927KIT	555/920 adjustable length
G PDK457BND	45 degree Bend
H PDK007HLE	High Level Elbow Terminal
I PDK907BND	90 degree Bend
J PDK007CHC	Cowl
K PDK007WBK	Wall Bracket
PDK125POP	Boiler Plume Flue Adaptor
<b>100kW KIT AND EXTENSIONS (150mm dia)</b>	
D PDK200KIT	Plume Dispersal Balanced Flue Starter Kit
E PDK258KIT	250mm length
E PDK508KIT	500mm length
E PDK1008KT	1000mm length
F PDK428KIT	305/420 adjustable length
F PDK928KIT	555/920 adjustable length
G PDK458BND	45 degree Bend
H PDK008HLE	High Level Elbow Terminal
I PDK908BND	90 degree Bend
J PDK008CHC	Cowl
K PDK008WBK	Wall Bracket
PDK150POP	Boiler Plume Flue Adaptor

## Stainless Steel Flue Kits & Accessories

### Conventional Flue Kits

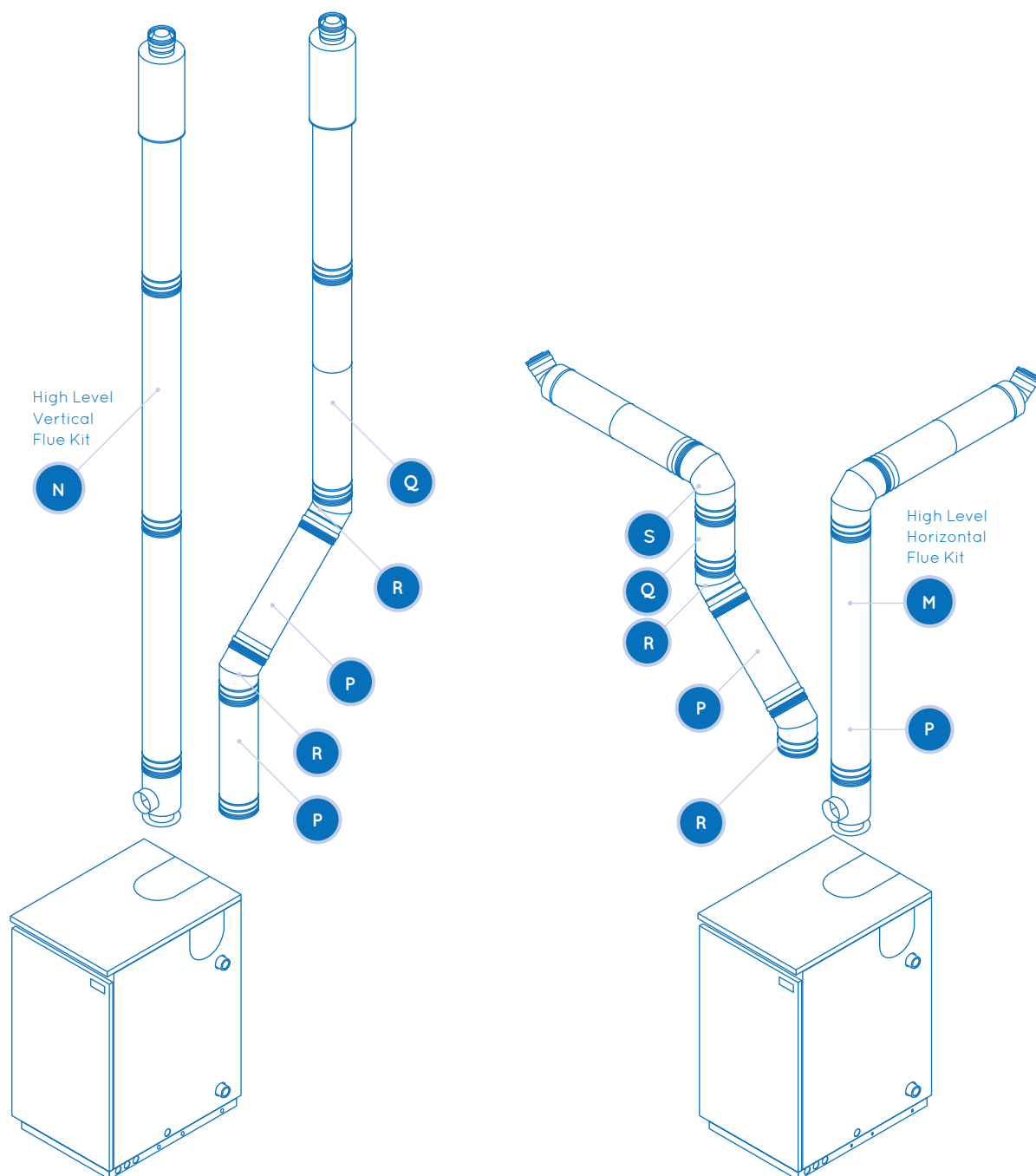


Product Code	Product Description
<b>12-35kW</b>	
<b>KITS &amp; EXTENSIONS (100mm dia)</b> (Kit contents include boiler and flex adaptor, clamp and cowl)	
ECF003KIT	3m Kit
ECF006KIT	6m Kit
ECF008KIT	8m Kit
ECF010KIT	10m Kit
ECF012KIT	12m Kit
ECF014KIT	14m Kit
ECF016KIT	16m Kit
ECF100EXB	1000mm length white
ECF100EXC	500mm length white
ECF100EXD	250mm length white
ECF250ADJ	305/420mm adjustable length
ECF500ADJ	555/920mm adjustable length
ECF045ELB	45° Bend
ECF100WBK	Wall Bracket
<b>44-58kW</b>	
<b>KITS &amp; EXTENSIONS (150mm dia)</b> (Kit contents include boiler and flex adaptor, clamp and cowl)	
ECF606KIT	6m Kit
ECF608KIT	8m Kit
ECF610KIT	10m Kit
ECF612KIT	12m Kit
ECF614KIT	14m Kit
ECF616KIT	16m Kit
ECF150EXB	1000mm length white
ECF150EXC	500mm length white
ECF150EXD	250mm length
ECF256ADJ	305/420mm Adjustable length white
ECF506ADJ	555/920mm Adjustable length white
ECF456ELB	45° Bend
ECF150WBK	Wall Bracket
<b>73-100kW</b>	
<b>KITS &amp; EXTENSIONS (180mm dia)</b> (Kit contents include boiler and flex adaptor, clamp and cowl)	
ECF706KIT	6m Kit
ECF708KIT	8m Kit
ECF710KIT	10m Kit
ECF712KIT	12m Kit
ECF714KIT	14m Kit
ECF716KIT	16m Kit
ECF180EXB	1000mm length white
ECF180EXC	500mm length white
ECF180EXD	250mm length
ECF257ADJ	305/420mm Adjustable length white
ECF507ADJ	555/920mm Adjustable length white
ECF457ELB	45° Bend
ECF180WBK	Wall Bracket

## Stainless Steel Flue Kits & Accessories

### High Level & Vertical Flue Kits

High level flue kits are the optimal flue system, as they provide good natural draft and ensure that the flue gases are discharged away from habitable areas.





Product Code	Product Description
<b>12-35kW KITS &amp; EXTENSIONS (125mm dia) (White Coated)</b>	
<b>M</b> HLE005HHL	1075mm High Level Horizontal Flue Kit
<b>N</b> HLE005VHL	3 metre Vertical Balance Flue Kit
<b>P</b> HLE005EXA	1000mm High Level/Vertical Extension
<b>P</b> HLE005EXB	500mm High Level/Vertical Extension
<b>P</b> HLE005EXC	250mm High Level/Vertical Extension
<b>Q</b> HLE005EXD	330mm Adjustable Extension
<b>R</b> HLE455ELB	45 degree Bend
<b>S</b> HLE905ELB	90 degree Bend
COF005PFL	Pitch Flashing
COF005FFL	Flat Flashing
HLF005WBK	Wall Bracket
<b>44-58kW KITS &amp; EXTENSIONS (150mm dia) (Stainless Steel)</b>	
<b>M</b> HLF006HHL	1075mm High Level Horizontal Flue Kit
<b>N</b> HLF006VHL	3 metre Vertical Balance Flue Kit
<b>P</b> HLF006EXA	1000mm High Level/Vertical Extension
<b>P</b> HLF006EXB	500mm High Level/Vertical Extension
<b>P</b> HLF006EXC	250mm High Level/Vertical Extension
<b>Q</b> HLF006EXD	330mm Adjustable Extension
<b>Q</b> HLF006EXE	555mm/920mm Adjustable length
<b>R</b> HLF456ELB	45 degree Bend
<b>S</b> HLF906ELB	90 degree Bend
COF006PFL	Pitch Flashing
COF006FFL	Flat Flashing
HLF006WBK	Wall Bracket

Product Code	Product Description
<b>73kW KITS &amp; EXTENSIONS (180mm dia) (Stainless Steel)</b>	
<b>M</b> HLF007HHL	1075mm High Level Horizontal Flue Kit
<b>N</b> HLF007VHL	3 metre Vertical Balance Flue Kit
<b>P</b> HLF007EXA	1000mm High Level/Vertical Extension
<b>P</b> HLF007EXB	500mm High Level/Vertical Extension
<b>P</b> HLF007EXC	250mm High Level/Vertical Extension
<b>Q</b> HLF007EXD	305mm/420mm Adjustable length
<b>Q</b> HLF007EXE	555mm/920mm Adjustable length
<b>R</b> HLF457ELB	45 degree Bend
<b>S</b> HLF907ELB	90 degree Bend
HLF007WBK	Wall Bracket
<b>100kW KITS &amp; EXTENSIONS (200mm dia) (Stainless Steel)</b>	
<b>M</b> HLF008HHL	1075mm High Level Horizontal Flue Kit
<b>N</b> HLF008VHL	3 metre Vertical Balance Flue Kit
<b>P</b> HLF008EXA	1000mm High Level/Vertical Extension
<b>P</b> HLF008EXB	500mm High Level/Vertical Extension
<b>P</b> HLF008EXC	250mm High Level/Vertical Extension
<b>Q</b> HLF008EXD	250mm Adjustable Extension
<b>Q</b> HLF008EXE	500mm Adjustable Extension
<b>R</b> HLF458ELB	45 degree Bend
<b>S</b> HLF908ELB	90 degree Bend
HLF008WBK	Wall Bracket

#### \*M – High Level Horizontal Flue Kit

All high level horizontal flue kits contain:

- Boiler Adaptor
- 1000mm Vertical Length
- 90° Bend
- Jubilee Clip for air snorkel
- Wall Seal
- Silicone Lubricant
- Assembly Instruction
- Horizontal Terminal – 20-35kW = 500mm Fixed, 44-100kW = 300-500mm Adj.

#### \*N – Vertical Flue Kit

All vertical flue kits contain:

- Boiler Adaptor
- Storm Collar
- 2 x Wall Brackets
- Silicone Lubricant
- Jubilee Clip for air snorkel
- Assembly Instructions
- 2 x 1000mm Lengths
- Rain Cowl
- 1000mm length including Terminal

# Flue Kits for Blue Supreme™ Boilers

A range of flue kits has been designed specifically for use with the **Blue Supreme™** range of boilers. The flue kits are available for both low level and high level applications, in stainless steel or a white finish.

Product Code	Product Description
<b>20-26kW</b>	<b>KITS &amp; EXTENSIONS</b>
BSF005CBF	Top Outlet Low Level Flue Kit - SS
BSF005WBF	Top Outlet Low Level Flue Kit - White
BSF005HHL	High Level Horizontal Flue Kit - SS
BSF005VHL	High Level Vertical Flue Kit - SS
BSF005WHH	High Level Horizontal Flue Kit - White
BSF005WVH	High Level Vertical Flue Kit - White

BSF005WVH



BSF005WHH



BSF005WBF



BSF005CBF



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# Firebird Support

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## Customer Service

Firebird pride themselves on offering the highest levels of customer service possible. The level of service provided is monitored on a regular basis to ensure customers' requirements are always met.



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## Technical Support

Based at Firebird's UK headquarters, the **Technical Hub** provides customers with a comprehensive technical support package which is designed to make the specification and installation process as simple as possible. For technical support please contact the Firebird Technical Hub on **01752 691177** or **technicalhub@firebird.uk.com**.



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## Quality

Firebird oil-fired boilers are manufactured in accordance with the highest quality standards including **ISO 9001:2008**. All products undergo rigorous testing procedures by external standards agencies to ensure optimum performance and efficiency. Every product is designed to meet a specific requirement and has been manufactured using premium quality materials to precise standards and tolerances.



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## Warranty

Firebird oil-fired boilers are covered by a 2-year manufacturers warranty as standard, with extended warranties of up to 10 years available on some ranges. For further information, please contact Firebird Products Ltd. To register your warranty please visit **[www.firebird.uk.com](http://www.firebird.uk.com)**.



**Firebird Products Ltd**

Phoenix House  
Eastern Wood Road  
Langage Industrial Estate  
Plympton  
Plymouth PL7 5ET



T: 01752 691177  
F: 01752 691131  
E: [sales@firebird.uk.com](mailto:sales@firebird.uk.com)

**[www.firebird.uk.com](http://www.firebird.uk.com)**

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