



Multifuel Inset Stoves



Biomass Heating

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From it's modest beginnings in 1980, Firebird has grown to become a leading manufacturer of heating products in the Down through the UK and Ireland. years, the company has developed a reputation for manufacturing robust, high-quality products efficient, designed for longer life and ease of installation.

From the robust elite manufacturing process, through to the dedicated sales, technical and training teams, Firebird can guarantee the highest quality product and service. In addition, our products are rigorously tested and approved to all relevant European and national standards.

Firebird's products are supported by a nationwide network of approved service engineers. All technical enquiries and warranty calls are managed by Firebird's technical department.

Firebird offer product training at a number of locations across the UK. either at its own facilities in Devon or in partnership with local OFTEC registered training centres. All training programmes involve hands demonstrations of Firebird products as well as practical advice on installation, commissioning, service and repair.

Firebird is ISO-9001 accredited and a long-standing member of OFTEC.





In addition, Firebird products enjoy some of the following accreditations:















Enviromax Condensing Oil Boilers



Features & Benefits

ErP A Rated

- A modern, truly condensing boiler that delivers the efficiency promised.
- Up to 25% savings in fuel consumption compared with non-condensing boilers.
- · Lower emissions and carbon dioxide.

Designed as a condensing boiler

- not an "add-on"

- The condensing heat exchanger is an integral part of the boiler shell.
- Condenser is located at the bottom of the appliance. There is no fear of corrosion.
- Easy to install and service.

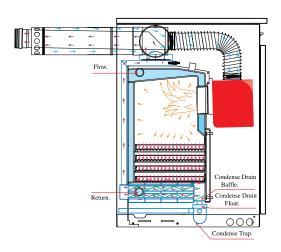
Robust design

- Enviromax[™] boilers are built from premium grade steel with a minimum 4 mm gauge.
- All indoor models have a heavy duty casing with a polyester-coated finish to protect the boiler from normal wear and tear.

Widest range on the market

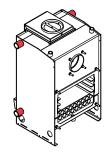
 With up to 60 models available, we have something to suit every customer. Ranging from 12kW to 100kW.

ErP RATING





Installer Friendly Features



 4-tapping points on most boiler models increases installation options.



Front service access

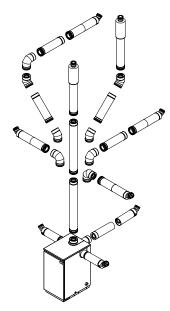
 easy access to
 common service
 parts.



• 7-pin plug - simplifies wiring.



 Optional condensate pump - lifts up to 5m
 perfect solution where natural gradient is not available.



 Multi-directional flue options - increases installation options.





Enviromax Kitchen

A high quality finish ensures that this boiler won't look out of place in your kitchen.



Features

- Compact design fits under standard kitchen worktop (outputs up to 35kW only).
- Hard wearing casings with premium quality finish.
- Patented heat exchanger design.
- Multiple tapping points for ease of installation.
- Front service access.
- PCB controller with anti cycling function (outputs up to 35kW).
- Fully insulated and acoustically designed for ultra quiet operation.
- Multi directional flue options.
- High performance Riello RDB burner complete with full diagnostic control box.
- Optional condensate pump.
- Eight models in outputs from 12kW to 100kW.

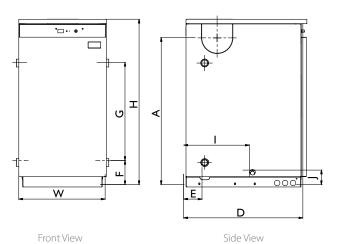
Specification

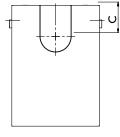
Model Enviromax	Sales Code	Weight kg	Dime:	nsions W	(mm) D	A	c	E	F	G	ı	J
Kitchen 12-18kW	CKI018DLX	115	847	345	610	753	157	94	124	502	336	75
Kitchen 12-20kW	CKI020DLX	125	847	442	610	753	157	94	124	502	336	75
Kitchen 20-26kW	CKI026DLX	128	847	442	610	753	157	94	124	502	336	75
Kitchen 26-35kW	CKI035DLX	131	847	442	610	753	157	94	124	502	336	75
Kitchen 35-44kW	CKI044DLX	210	1046	464	852	914	154	100	125	620	485	86
Kitchen 44-58kW	CKI058DLX	216	1046	464	852	914	154	100	125	620	485	86
Kitchen 58-73kW	CKI073DLX	242	1196	524	851	1024	157	100	125	670	484	86
Commercial Utility 80-100kW	CUT100NKT	390	1249	623	1071	-	158	130	132	832	723	72

Accessories

ACCENVPMP Condensate Pump Kit

Dimensions (mm)





Top View





Enviromax System

Factory-fitted expansion vessel and circulating pump saves space and installation time.

Features

- Compact design fits under standard kitchen worktop (outputs up to 35kW).
- Low pressure switch protects boiler in the event of system water loss.
- · Hard wearing casings with premium quality finish.
- Patented heat exchanger design.
- · Multiple tapping points for ease of installation.
- Front service access.
- Fully insulated and acoustically designed for ultra quiet operation.
- Multi directional flue options.
- High performance Riello RDB burner complete with full diagnostic control box.
- PCB Controller with anti cycling function (outputs up to 35kW).
- Optional condensate pump.
- · Four models in outputs from 12kW to 44kW.

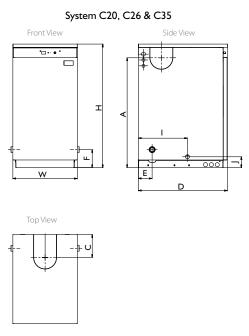


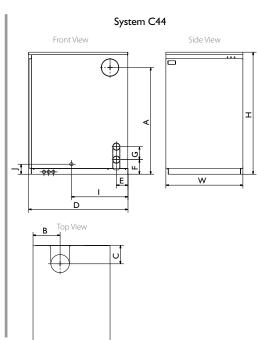


Specification

Model	Sales Code	Weight	Dime	ension	s(mm)							
Enviromax		kg	Н	W	D	Α	В	c	E	F	G	ı	J
System 12-20kW	CSB020DLX	143	844	442	610	752	-	157	94	123	-	336	74
System 20-26kW	CSB026DLX	146	844	442	610	752	-	157	94	123	-	336	74
System 26-35kW	CSB035DLX	149	844	442	610	752	-	157	94	123	-	336	74
System 35-44kW	CSB044DLX	235	1046	660	852	914	232	158	100	125	111	485	86

Dimensions (mm)







Pressure Vessel





Enviromax Combi



The Enviromax Combi Boiler provides both domestic hot water and central heating water in a single appliance, saving you the cost and space associated with a hot water tank.

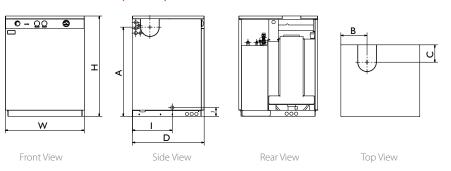
Features

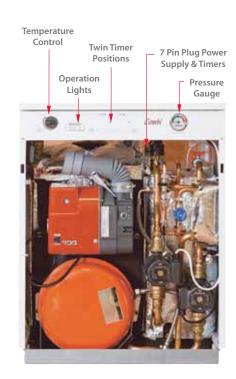
- Excellent hot water performance
 over 20 litres/min on 35kW model.
- PCB controller using highly accurate thermistors.
- Rapid re-heat after hot water draw-off.
- Compact design fits under standard kitchen worktop.
- Hard wearing casings with high quality finish.
- Patented heat exchanger design.
- Twin circulating pump
 no diverter valve required.
- No flow switch.
- · Front service access.
- Fully insulated and acoustically designed for ultra quiet operation.
- · Multi directional flue options.
- High performance Riello RDB burner complete with full diagnostic control box.
- Optional condensate pump and timer controllers.
- Three models in outputs from 12kW to 35kW.

Specification

Model Enviromax	Sales Code	Weight kg	Dimen H	sions(ı W	nm) D	A	В	c	ı	J
Combi 12-20kW	CCO020DLX	173	845	665	605	750	220	147	335	75
Combi 20-26kW	CCO026DLX	176	845	665	605	750	220	147	335	75
Combi 26-35kW	CCO035DLX	179	845	665	605	750	220	147	335	75

Dimensions (mm)







Enviromax Slimline Combi

WALLES OF

Only 520mm - ideal for retrofitting. Small enough to fit - big enough to cope.

Features

- Excellent hot water performance over 16 litres/min on 35kW model.
- PCB controller using highly accurate thermistors.
- · Rapid re-heat after hot water draw-off.
- Compact design fits under standard kitchen worktop.
- Hard wearing casings with high quality finish.
- · Patented heat exchanger design.
- · Twin circulating pump
 - no diverter valve required.
- No flow switch.
- Fully insulated and acoustically designed for ultra quiet operation.
- · Multi directional flue options.
- High performance Riello RDB burner complete with full diagnostic control box.
- Optional condensate pump and timer controllers.
- Three models in outputs from 12kW to 35kW.

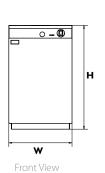


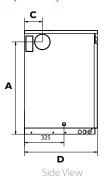


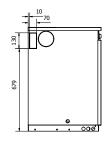
Specification

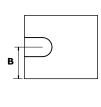
Model	Sales Code	Weight	Dimen	sions(ı	nm)			
Enviromax		kg	Н	W	D	Α	В	C
Slimline Combi 12-20kW	CCO020SLM	165	853	520	600	759	260	147
Slimline Combi 20-26kW	CCO026SLM	168	853	520	600	759	260	147
Slimline Combi 26-35kW	CCO035SLM	172	853	520	600	759	260	147

Dimensions (mm)









Rear View

Top View

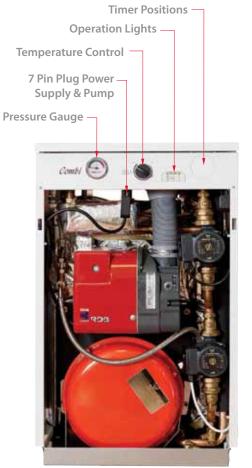
Accessories

Sales Code PRODUCT DESCRIPTION

ACCENVPMP Condensate Pump Kit

ACC000ETM Combi Twin Channel Timer (Standard Combi)
ACC000SCT Combi Single Channel Timer (Slimline Combi)

ACC000CWC 1000 RF 2-Channel Wireless Controller (Slimline Combi)







Enviromax Heatpac & Slimline Heatpac

The Enviromax Heatpac range does not need to be housed in a building, thereby reducing cost and labour. The boilers come with removable sides for easy access to any part of the unit. Piping may be carried out from the back or from underneath.

Features

Heatpac

- High quality weather-proof PVC-coated casing (outputs up to 58kW).
- Fully insulated to prevent heat loss.
- Patented heat exchanger design.
- Fitted with frost protection stat.
- Ultra quiet operation.
- Stainless steel terminal guard.
- Flue can exit left or right (except Slimline models)
- High performance Riello RDB burner complete with full diagnostic control box.
- Seven models in outputs from 12kW to 73kW.

Slimline Heatpac (as above plus the following)

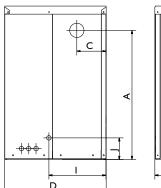
- · Only 465mm wide.
- Three models in outputs from 12kW to 35kW.

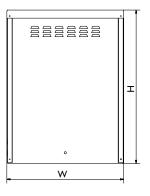


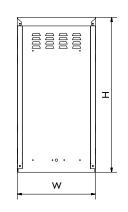


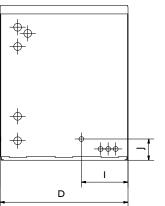
Model	Sales Code	Weight	Dimens	ions (n	nm)				
Enviromax		kg	н	W	D	c	Α	1	J
Heatpac 12-18kW	CON018HPK	134	945	620	625	180	795	351	133
Heatpac 12-20kW	CON020HPK	154	945	720	625	180	795	351	133
Heatpac 20-26kW	CON026HPK	154	945	720	625	180	795	351	133
Heatpac 26-35kW	CON035HPK	158	945	720	625	180	795	351	133
Heatpac 35-44kW	CON044HPK	244	1074	839	855	180	936	507	134
Heatpac 44-58kW	CON058HPK	250	1074	839	855	180	936	507	134
Heatpac 58-73kW	CON073HPK	280	1200	903	855	180	1039	507	134
Slimline Heatpac 12-20kW	CON020SLM	147	920	465	760	-	794	277	126
Slimline Heatpac 20-26kW	CON026SLM	150	920	465	760	-	794	277	126
Slimline Heatpac 26-35kW	CON035SLM	153	920	465	760	-	794	277	126

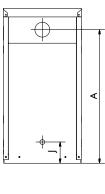
Dimensions (mm)











Heatpac, Systempac, Combipac



Slimline Heatpac, Slimline Systempac

Enviromax Systempac, Combipac & Slimline Systempac

The Environax Systempac, Combipac and Slimline Systempac are external boilers with similar specifications to their equivalent indoor model, with the addition of a built in frost thermostat.

Features

Systempac

- · High quality weather-proof PVC-coated casing.
- Low pressure switch protects boiler in the event of system water loss.
- · Fully insulated to prevent heat loss.
- Patented heat exchanger design.
- Fitted with frost protection stat.
- Ultra quiet operation.
- Stainless steel terminal guard.
- Flue can exit left or right (except Slimline models)
- High performance Riello RDB burner complete with full diagnostic control box.
- Four models in outputs from 12kW to 44kW.

Slimline Systempac (same features as Systempac)

- Only 465mm wide.
- Three models in outputs from 12kW to 35kW.

Combipac

- Excellent hot water performance
 - over 20 litres/min on 35kW model.
- · PCB controller using highly accurate thermistors.
- Rapid re-heat after draw-off.
- High quality weather-proof PVC-coated casing.
- · Fully insulated to prevent heat loss.
- · Patented heat exchanger design.
- · Flue can exit left or right.
- Twin circulating pumps no diverter valve required.
- · No flow switch.
- · Fitted with frost protection stat.
- Fully insulated and acoustically designed for ultra quiet operation.
- High performance Riello RDB burner complete with full diagnostic control box.
- Three models in outputs from 12kW to 35kW.











Combipac

Specification

Model Enviromax	Sales Code	Weight kg	Dimen H	sions (mm) D	c	A	ı	J
Systempac 12-20kW	CSP020NKT	163	945	720	625	180	795	351	133
Systempac 20-26kW	CSP026NKT	163	945	720	625	180	795	351	133
Systempac 26-35kW	CSP035NKT	166	945	720	625	180	795	351	133
Systempac 35-44kW	CSP044NKT	270	1074	839	855	180	936	507	134
Slimline Systempac 12-20kW	CSP020SLM	147	920	465	760	-	794	277	126
Slimline Systempac 20-26kW	CSP026SLM	150	920	465	760	-	794	277	126
Slimline Systempac 26-35kW	CSP035SLM	153	920	465	760	-	794	277	126
Combipac 12-20kW	CCP020000	206	945	720	625	180	795	351	133
Combipac 20-26kW	CCP026000	206	945	720	625	180	795	351	133
Combipac 26-35kW	CCP035000	209	945	720	625	180	795	351	133



Slimline Systempac





Enviromax Popular

Ideal for installation in a dedicated boiler house, garage or outbuilding



Features

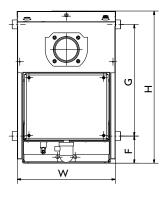
- Patented heat exchanger design.
- Built from premium quality steels.
- Compact design.
- Multiple tapping points for ease of installation.
- Sturdy well insulated casing minimise heat loss.
- High performance Riello RDB burner complete with full diagnostic control box.
- Eight models in outputs from 12kW to 100kW.

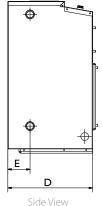


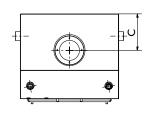
Specification

Model	Sales Code	Weight kg	Veight kg Dimensions(mm)							
Enviromax		(incl. burner)	Н	W	D	BURNER DEPTH	c	E	F	G
Popular 12-18kW	CPO018RDB	99	684	344	381	202	164	100	122	502
Popular 12-20kW	CPO020RDB	107	684	441	381	202	164	100	122	502
Popular 20-26kW	CPO026RDB	112	684	441	381	202	164	100	122	502
Popular 26-35kW	CPO035RDB	115	684	441	381	202	164	100	122	502
Popular 35-44kW	CPO044RDB	182	815	470	531	202	154	96	123	620
Popular 44-58kW	CPO058RDB	190	815	470	531	253	154	96	123	620
Popular 58-73kW	CPO073RDB	210	873	530	525	253	155	96	123	670
Popular 80-100kW	CPO100RDB	300	1052	625	745	253	139	112	130	832

Dimensions (mm)







Top View



HEATING SOLUTIONS

Enviromax / Silver Range Technical Specification



		Combi Boilers Sealed System Boiler					Heat Only Boilers							
Heat Output	kW	12-20+20-26	26-35	12-20+20-26	26-35	35-44	12-18	12-20+20-26	26-35	35-44+44-58	58-73	80-100		
	Max. BTU/h ('000)	50-90	90-120	50-90	90-120	120-150	40-60	50-90	90-120	120-200	200-250	270-340		
CONNECTIONS		-	-	-	-	-	-	-	-	-	-	-		
Heating Flow		22 mm	28 mm	22 mm	28 mm	1½" BSP	1" BSP	1" BSP	1" BSP	1½" BSP	1½" BSP	2" BSP		
Heating Return		22 mm	28 mm	1" BSP	1" BSP	1½" BSP	1" BSP	1" BSP	1" BSP	1½" BSP	1½" BSP	2" BSP		
Mains Cold Feed (Coppe	r)	15 mm	15 mm	15 mm	15 mm	15 mm	-	-	-	-	-	-		
Hot Water Delivery (Copp	per)	15 mm	15 mm	-	-	-	-	-	-	-	-	-		
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 Ou	utlet (Copper)	15 mm	15 mm	15 mm	15 mm	15 mm	-	-	-	-	-	-		
Condensate Trap		22 mm F	LASTIC	22 1	nm PLAS	TIC	-	-	-	-	-	-		
CIRCULATING PUMP		25/60	25/60	25/60	25/60	25/80	-	-	-	-	-	-		
Domestic Hot Water Plate	e Heat Exchanger	25 plate	31 plate	-	-	-	-	-	-	-	-	-		
Integral Expansion Vesse		12 litres	12 litres	12 litres	12 litres	18 litres	-	-	-	-	-	-		
Expansion Vessel Pre-cha	, ,	1 bar	1 bar	1 bar	1 bar	1 bar	-	-	-	-	-	-		
Low Pressure Water Swit	tch?	V	~	~	~	~	×	×	×	×	×	×		
Filling Loop Included?		~	~	~	~	v x x x x x					×			
WATER CONTENT		-	-	-	-	-	-					-		
Boiler (Litres)		24	24	24	24	45	24 24 24 43.5 54				75			
Primary Tank Combi	/Combipac (Litres)	40	40	-	_	-					_			
,	ne Combi (Litres)	11	11	_	_	_	_	_	-	_	-	_		
D.H.W. GUIDE PERFORN	MANCE*		-	-	-	-	-	-	-	-	-			
in litres/min (120 litre dr.	aw-off at 40°C ∆t.)	16	20	-	-	-	-	-	-	-	-	-		
Combi / Combipac		16/18	20	-	_	-	_	-	_	-	-	-		
Slimline Combi		12/14	16	-	-	-	-	-	-	-	-	-		
FLUE (INDOOR BOILERS	S)	-	-	_	-	-	_	-	-	-	-	_		
Balanced Flue Assembly		125 (5")	125 (5")	125 (5")	125 (5")	150 (6")	125 (5")	125 (5")	125 (5")	150 (6")	180 (7")	200 (8")		
Conventional Flue Assen		100 id.	100 id.	100 id.	100 id.	150 id.	100 id.	100 id.	100 id.	150 id.	180 id.	180 id.		
Max. Low Level Flue Len	•	3	3	3	3	3	3	3	3	3	3	3		
Max. High Level Flue Ler		6	6	6	6	4	6	6	6	4	4	4		
Max. Vertical Level Flue I	_	6	6	6	6	4	6	6	6	4	4	4		
INTEGRAL FLUES ON HEATPAC			-	_	-	-	_	-	-	_	_			
HEATING SYSTEM (SEA		Fit in accor	dance wi	th BS 7074 I	Part 1, BS	5449. OFTE	C standard	ds and all oth	ner releva	int legislatio	n.			
Max. Operating Pressure))	2.5 k		1	2.5 bar		I			-				
Max. System Pressure Co		1.5 k	oar		1.5 bar					_				
Min. System Pressure Co		0.5 k	oar		0.5 bar					_				
Preset Pressure Relief Va	ilve	3 b	ar		3 bar				3	bar				
MAINS WATER SUPPLY	PRESSURE	Min. 1 bar	- Max. 10	bar (for use	r comfort,	we recomr	nend pres	sure at tap to	o be betw	een 2 and 5	bar).			
		Limescale	excess: W	hen over 15	60/200 ppn	n, fit approp	oriate scale	e reducer.						
WATER SIDE RESISTANCE	CE	Flow Rate	To Give A	Nominal O	utput At 1	0k Differen	tial	20kw	,	26kw	35	kw		
		Flow Rate	Measured	l (Kg h-1)				1642		2135	28	74		
		Waterside	Resistano	e (mbar)				0.18		0.18	0.	18		
		Flow Rate	To Give A	Nominal O	utput At 2	0k Differen	tial	20kw	,	26kw	35	kw		
		Flow Rate	Measured	l (Kg h-1)	-			870		1131	15	23		
		Waterside	Resistano	e (mbar)				0.19		0.19	0.	19		
PRESSURE JET OIL BUR	NERS	RIELLO RD	O RDB 2.2 up to C44 & RIELLO RDB 4.2 from C58 to C100											
FUEL		C2 Kerosene												
ELECTRICAL SUPPLY		230V AC 50	Hz 5A											
FROST THERMOSTATS		BOILER SA	AFETY LI	MIT, FROST	AND OV	ER-RUN TI	HERMOST	ATS FITTE	ON ALI	HEATPAC	MODELS			
FROST STAT FITTED TO ALL OU	ITDOOR MODELS													
Boiler Central Heating Co	ontrol	60°C -	80°C	6	60°C - 80°C				60°C	- 80°C				
Boiler Safety Limit		110			110°C									
Tank (DHW)- Fixed		78°C												
Early Alert - Fixed		87°C												
Over-run - Fixed		93			87°C		87	7°C (Heatpac	, Slimline	Heatpac & I	Kitchen on	ly)		
							<u> </u>			·				

^{*} where water demand exceeds this, a flow restrictor is recommended. This will ensure a water supply at an adequate temperature.





Silver Range Condensing Utility & System



Features

Utility

- Compact design fits under standard kitchen worktop.
- White casing finish.
- Patented heat exchanger design.
- Multiple tapping points for ease of installation.
- Front service access.
- Fully insulated and acoustically designed for ultra quiet operation.
- · Multi directional flue options.
- High performance Riello RDB burner complete with full diagnostic control box.
- · Optional condensate pump.
- Three models in outputs from 12kW to 35kW.

System (as above plus the following)

- Low pressure switch protects boiler in the event of system water loss.
- Factory-fitted expansion vessel and circulating pump
- Three models in outputs from 12kW to 35kW.

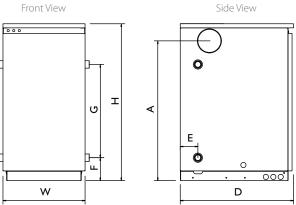


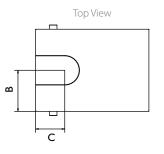
Specification

Model	Sales Code	Weight	Dimensions(mm)								
Silver		kg	Н	W	D	Α	В	c	E	F	G
Utility 12-20kW	CUT020NFT	125	845	442	610	755	221	157	94	125	502
Utility 20-26kW	CUT026NFT	128	845	442	610	755	221	157	94	125	502
Utility 26-35kW	CUT035NFT	131	845	442	610	755	221	157	94	125	502
System 12-20kW	FSS020NKT	143	845	442	610	755	221	157	94	125	-
System 20-26kW	FSS026NKT	146	845	442	610	755	221	157	94	125	-
System 26-35kW	FSS035NKT	149	845	442	610	755	221	157	94	125	-



Dimensions (mm)





Accessories

ACCENVPMP Condensate Pump Kit





Silver Range Condensing Silverpac

Silverpac & Boilerhouse





- · High quality weather-proof casing.
- Fully insulated to prevent heat loss.
- · Patented heat exchanger design.
- Fitted with frost protection stat.
- Ultra quiet operation.
- Stainless steel terminal guard.
- Flue can exit left or right.
- High performance Riello RDB burner complete with full diagnostic control box.
- Three models in outputs from 12kW to 35kW.





Silverpac Specification

Model	Sales Code	Weight	Dimen	sions (mn	1)				
Enviromax		kg	Н	W	D	c	Α	- 1	J
Silverpac 12-20kW	FSP020HPK	131	945	720	625	180	795	351	133
Silverpac 20-26kW	FSP026HPK	154	945	720	625	180	795	351	133
Silverpac 26-35kW	FSP035HPK	158	945	720	625	180	795	351	133

Dimensions are same as Enviromax Heatpac



Boilerhouse Features

- Patented heat exchanger design.
- Built from premium quality steels.
- Compact design.
- Multiple tapping points for ease of installation.
- Sturdy well insulated casing minimise heat loss.
- High performance Riello RDB burner complete with full diagnostic control box.
- Three models in outputs from 12kW to 35kW.



Boilerhouse Specification

Model Enviromax	Sales Code	Weight kg (incl. burner)	Dime H	nsions W	(mm) D	BURNER DEPTH	c	E	F	G	
Boilerhouse 12-20kW	FSB020RDB	107	684	441	381	202	164	100	122	502	
Boilerhouse 20-26kW	FSB026RDB	112	684	441	381	202	164	100	122	502	
Boilerhouse 26-35kW	FSB035RDB	115	684	441	381	202	164	100	122	502	

Dimensions are same as Enviromax Popular







Flues are a critical part of a boiler installation. A correctly installed flue will ensure clean and efficient operation of the boiler. Firebird offer a range of high quality stainless steel and plastic flue kits that ensure optimum boiler performance and longer design life.

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

Firebird was the first oil boiler manufacturer to introduce plastic flue kits in the UK market. The Plas-Fit range of plastic balanced flue kits offer versatility, ease of installation and a quality finish which will appeal to householders and installers alike. Low-level and High-level Plas-Fit flue kits are currently available for use on the 12 to 35kW Enviromax range of condensing boilers.

NB: Plas-Fit flues can not be used on the Silver condensing range.

Sales Code	Product Description
12-35kW	KITS (125mm dia)
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
12-35kW	ACCESSORIES (125mm dia)
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
12-35kW	PLUME DISPERSAL (80mm dia)
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









Condensing Stainless Steel
Flue Kits & Accessories

Flues are a critical part of a boiler installation. A correctly installed flue will ensure clean and efficient operation of the boiler. Firebird offer a range of high quality stainless steel flue kits that ensure optimum boiler performance and longer design life. Three types are available:

- · Low Level Flue
- High Level Flue (Vertical & Horizontal)
- Conventional Flue

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.





LOW LEVEL FLUE KITS

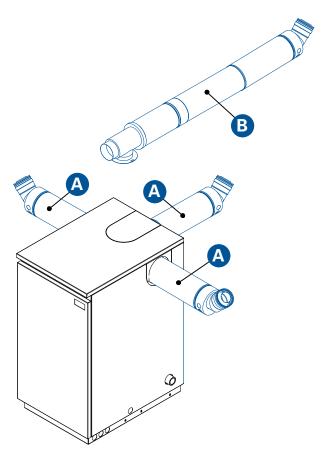
Low level flue kits have become popular in recent years due to their convenient size and ease of installation. When installing a condensing low level flue, consideration should be given to the discharge of the condense plume as it may cause a nuisance to neighbouring properties. In some cases a plume dispersal kit may be advisable.

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







Other components available L=250/500/1000mm F L=305-420/555-920mm

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 either used with a kit or retro-fitted to an existing concentric flue.

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

K PDK008WBK Wall Bracket

Boiler Plume Flue Adaptor

PDK150POP



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.

	Sales Code	Product Description
	12-35kW	KITS & EXTENSIONS (125mm dia) (White Coated)
M*	HLE005HHL	1075mm High Level Horizontal Flue Kit
N*	HLE005VHL	3 metre Vertical Balance Flue Kit
P	HLE005EXA	1000mm High Level/Vertical Extension
P	HLE005EXB	500mm High Level/Vertical Extension
P	HLE005EXC	250mm High Level/Vertical Extension
Q	HLE005EXD	330mm Adjustable Extension
R	HLE455ELB	45 degree Bend
S	HLE905ELB	90 degree Bend
	COFOO5PFL	Pitch Flashing
	COF005FFL	Flat Flashing
	HLF005WBK	Wall Bracket
		1/100 0 11/1010101010/450 1: \/

	44-58kW	KITS & EXTENSIONS (150mm dia) (Stainless Steel)
M*	HLF006HHL	1075mm High Level Horizontal Flue Kit
N*	HLF006VHL	3 metre Vertical Balance Flue Kit
P	HLF006EXA	1000mm High Level/Vertical Extension
P	HLF006EXB	500mm High Level/Vertical Extension
P	HLF006EXC	250mm High Level/Vertical Extension
Q	HLF006EXD	330mm Adjustable Extension
Q	HLF006EXE	555mm/920mm Adjustable length
R	HLF456ELB	45 degree Bend
S	HLF906ELB	90 degree Bend
	COFOO6PFL	Pitch Flashing
	COFOO6FFL	Flat Flashing
	HLF006WBK	Wall Bracket

	73kW	KITS & EXTENSIONS (180mm dia) (Stainless Steel)
M*	HLF007HHL	1075mm High Level Horizontal Flue Kit
N*	HLF007VHL	3 metre Vertical Balance Flue Kit
P	HLF007EXA	1000mm High Level/Vertical Extension
P	HLF007EXB	500mm High Level/Vertical Extension
P	HLF007EXC	250mm High Level/Vertical Extension
Q	HLF007EXD	305mm/420mm Adjustable length
Q	HLF007EXE	555mm/920mm Adjustable length
R	HLF457ELB	45 degree Bend
S	HLF907ELB	90 degree Bend
	HLF007WBK	Wall Bracket

	100kW	KITS & EXTENSIONS (200mm dia) (Stainless Steel)
М*	HLF008HHL	1075mm High Level Horizontal Flue Kit
N*	HLF008VHL	3 metre Vertical Balance Flue Kit
P	HLF008EXA	1000mm High Level/Vertical Extension
P	HLF008EXB	500mm High Level/Vertical Extension
P	HLF008EXC	250mm High Level/Vertical Extension
Q	HLF008EXD	250mm Adjustable Extension
Q	HLF008EXE	500mm Adjustable Extension
R	HLF458ELB	45 degree Bend
S	HLF908ELB	90 degree Bend
	HLF008WBK	Wall Bracket

* M - High Level Horizontal Flue Kit

- All high level horizontal flue kits contain:

 Boiler Adaptor

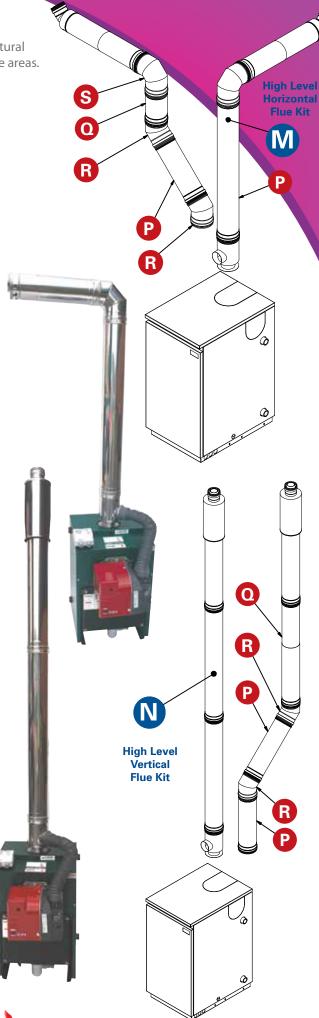
 1000mm Vertical Length

 Horizontal Terminal 20-35kW = 500mm Fixed, 44-100kw = 300-500mm Adj.
- 90° Bend Jubilee Clip for air snorkel
- Wall Seal • Silicone Lubricant
- Assembly Instructions

* N - Vertical Flue Kit

All vertical flue kits contain:

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





Flexible Cowl Flexible Clamp Plate Flexible Flue All conventional flue kits include boiler adapter, flexible adapters, clamp & cowl Flexible Adaptor Optional Flue Extension Condensing **Boiler Adaptor** Enviromax condensing oil Boiler

CONVENTIONAL FLUE KITS

Sales Code	Product Description
12-35KW	KITS & EXTENSIONS (100mm dia)
(Kit Contents inc	lude c/w 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

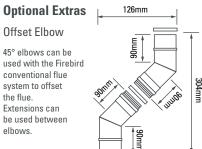
(Kit Contents include c/w boiler and flex adaptor, clamp and cov			
	ECF606KIT	6m Kit	
	ECF608KIT	8m Kit	
	ECF610KIT	10m Kit	
	ECF612KIT	12m Kit	
	ECF614KIT	14m Kit	
	ECF616KIT	16m Kit	
	ECF150EXB	1000mm length white	
	ECF150EXC	500mm length white	
	ECF150EXD	250mm length	
	ECF256ADJ	305/420mm Adjustable length white	
	ECF506ADJ	555/920mm Adjustable length white	
	ECF456ELB	45° Bend	
	Wall Bracket		

44-58kW KITS & EXTENSIONS (150mm dia)

(Kit Contents include c/w boiler and flex adaptor, clamp and cov				
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			

73-100kW KITS & EXTENSIONS (180mm dia)

Extensions 1000mm extension 500mm extension 250mm extension 305/420mm & 555/920mm telescopic extensions





Oil Boiler Spare Parts

Sales Code	Description	Sales Code	Description	Sales Code	Description
Burner	& Burner Parts	ZE20087025	Capacitor G3B/G5/G10	ZE20031996	Fuel Pump G3B/G5/G10
BRN070RB2	Burner RDB, 20kW	ZE20071576	Capacitor RDB 2.2, 4.5 uF	ZE20030953	Fuel Pump RDB
BRN090RB2	Burner RDB, 26kW	ZE20087035	Capacitor RDB 2.2, 4.0 uF	ZE3008794	High Voltage Leads RDB 2.2 (6pcs)
BRN120RB2	Burner RDB, 35kW	ZE20081251	Capacitor RDB 3.2/4.2	ZE3006911	Hydraulic Ram Short
BRN150RB3	Burner RDB, 44kW	ZE3003602	Connector 3/8 x 1/4	ZE3007971	Motor Mectron
BRN200RB4	Burner RDB, 58kW	ZE3001156	Control Box 530 se	ZE20071577	Motor RDB 2.2
BRN250RB4	Burner RDB, 73kW	ZE3008652	Control Box RDB	ZE3008964	Motor RDB 3.2/4.2
BRN070DGT	Digital Burner RDB, 20kW	ZE20035388	Control Box RDB - Digital	ZE3007162	O-ring, Fuel Pump MTM.3-5 (10pcs)
	(Firebird boiler only)	ZE3000443	Drive Coupling Nylon (10pcs)	ZE3002280	Photocell G3B/G5/G10
BRN090DGT	Digital Burner RDB, 26kW	ZE3007513	Electrode Assembly RDB 2.2/3.2	ZE3008646	Photocell RDB
	(Firebird boiler only)	ZE3005721	Electrode Group Short Head	ZE3005723	Pipe MTM 3
BRN120DGT	Digital Burner RDB, 35kW	ZE3008860	Electrode Group (RBS133) RDB	ZE3008878	Seal Kit RDB
	(Firebird boiler only)	ZE3005708	Fan Wheel Mectron	ACC000SSH	Small Snorkel Hose
BRN090G5X	Analogue Burner G5X 90k	ZE3008653	Filter & O-ring	ACC000JUB	Jubilee Clip, Snorkel Hose
		ZE3005787	Flange Gasket G3B/G5/G10	ZE3002279	Solenoid Coil G3B/G5/G10
Burner Parts		ZE3008512	Flange Gasket RBD	ZE3008648	Solenoid Coil RDB
ZE3002507	Blast Tube, T1 RDB	ZE3005720	Flexible Oil Line 900mm RDB	ZE20036083	Conversion Kit
ZE3002447	Blast Tube, T3 RDB	ZE3006384	Front Piece (RDB Flange)	ZE3007589	5 Pin Male Lead
ZE3006001	Blast Tube, LD3 G3B/G5/G10	ZE3007814	Fuel Line Tube (10pcs)	ZE20036083	5 Pin Female Plug

Sales Code Description

Sales Code	Description	
Thermo	stat Parts	
ACC000STA	Control Stat	1
	(50°/80°C)	-
ACC000THR	Dual Thermostat D5	
	Heatpac	Q.
ACC000DST	Dual Thermostat P5	
	Popular	-
ACC000EAS	Early Alert Stat	61
	(87° C)	-
ACC000FST	Frost Stat TLM 2557	mim
	(models up to 2008)	
ACC000TDF	Frost Stat - Thermodisc	10
	(2008 models onwards)	-
ACC000LMT	High Limit Stat	
	(110° C)	
ACC000SQL	High Limit Stat, Super Q	
	(AAM)	
ACC000OHS	Overheat Stat	8
	(87° C)	
ACC000RTS	Relay Tank Stat, Combi	
	(78° C)	
АСССОМРКТ	Stat Pocket 000949	
	4 pocket	1
ACC003PKT	Stat Pocket DIA 15 x 16	0
	3 pocket	The state of the s

Electrica	al Parts	
ACC000ETM	Combi Twin Timer Kit	00
	- Electronic	7
ACC000CLK	Time Clock (Single)	
ACC <mark>000</mark> ECG	PCB - Non Combi	Marie .
		THE PARTY NAMED IN
ACC000PCB	PCB Board, Combi	No.
		222
ACC000PSW	Pressure Switch	
ACC <mark>000</mark> RLY	Relay 230 Vac	100
		2.01
ACC000BAS	Relay Base	- 15 m
	11 pin	The same of the sa
ACC000RTP	Flow Switch Probe	
	Thermistor (Red)	
ACC000WTP	Boiler Thermistor Probes	
	(White)	
ACC000WTP	Tank Thermistor Probes	+
	(White)	



Sales Code Description **Sales Code Plumbing** ACCCOMMAC Air Vent 1/8"' Manual **ACCCOMAAV** Air Vent Auto ACC022VAL Ball Valve - 22mm ACC000PCV **Check Valve Nylon** ACC034MMC Check Valve 3/4" Brass Male/Male ACC034MFC Check Valve 3/4" Brass Male/Female ACC034FMC Check Valve 3/4" Brass Female/Male ACC130PMP **HE Circulating Pump** UPS25-80 130 ACC180PMP Circulating Pump **UPS25-80 180 ACCENVPMP** Condensate Pump ACC000TRP **Condensate Trap** & Adaptor **ACCCOMHOS** Expansion Vessel Flexible Hose ACC012PVL **Expansion Vessel** 12 litre ACC014PVL **Expansion Vessel** 14 litre **ACCCOMTMV** Thermostatic Mixing Valve,

ACC018PVL	Expansion Vessel	
	18 litre	
ACC <mark>012</mark> WSH	Teflon Washer 12.5 x 18.5 x 1.5mm red	
ACC <mark>017</mark> WSH	Teflon Washer 17 x 24 x 1.5mm red	
ACC000PHW	PHE Washer Set	
ACC <mark>015</mark> FCV	Filling Loop Check Valve	Wan all
ACC000FLH	Filling Loop Hose	1
	400mm	
ACCBRSFSW	Flowswitch, Sika Mark 1	
		-
ACCCOMFSW	Flowswitch, Sika Mark 2	
	VKX15MIFIREB03	7
ACCCOMDCV	Non Return Double Check Valve	9-9-0
	15mm	
ACC025PHE	Plate Heat Exchanger - 25	1
ACC031PHE	Plate Heat Exchanger - 31	1-10
ACCCOMPRG	Pressure Gauge	
	Combi/System	
ACCCOMSRV	Pressure Release Valve	
		And Best
ACC <mark>022</mark> PIV	Pump Isolating Valve	
	22mm	
ACC022PNR	Pump Isolating Valve	at a
	c/w Non Return Check Valve	The state of the s

Description

Other Parts

J. 1. 1. 1	
ACC <mark>035</mark> GSK	Combustion Door Insulation C20/C26/C35
ACC044GSK	Combustion Door Insulation C44/C58
ACC073GSK	Combustion Door Insulation C73
ACC100GSK	Combustion Door Insulation C100
ACC035GRA	Graphite Board C20/C26/C35
ACC044GRA	Graphite Board C44/C58
ACC073GRA	Graphite Board C73
ACC100GRA	Graphite Board C100

ACC090GSK	Combustion Door Insulation 50/70/90
ACC120GSK	Combustion Door Insulation 120
ACC150GSK	Combustion Door Insulation 150
ACC200GSK	Combustion Door Insulation 200
ACC <mark>250</mark> GSK	Combustion Door Insulation 250
ACC310GSK	Combustion Door Insulation 310
ACC000KEY	Heatpac Key
ACC000LCK	Heatpac Lock

Controllers

ACCWHTCTR Weather Compensation

Combi 15mm

Controller



ACCOOOCTR Cascading Controller



Solar Thermal Systems

Firebird's range of solar thermal systems is arguably the most extensive on the market and offers customers a wide choice of collectors, system configurations and accessories. Designed and manufactured to Firebird's exacting standards, our solar systems are second to none in terms of performance, durability and efficiency. All our solar systems have been placed through rigorous testing to ensure the highest standards have been achieved.







Solar thermal systems can deliver up to 70% of the hot water requirements for an average household in Ireland. Installation of solar energy on a larger scale, ie. commercial, can make a great contribution to commercial energy costs.

By using solar energy to heat hot water, you will be helping to reduce our dependence on fossil fuels, while improving the energy efficiency and potentially the value of your home. A typical domestic solar hot water system can save in excess of a tonne of CO₂ per annum.

1	Firebird Condensing Boiler	7A	Pressure Relief Valve
2	Unvented Cylinder	7B	Expansion Vessel
3	Temp. Sensor (after heating)	7C	Intermediate Vessel (if needed)
4	Mixing Valve	8	Controller
5	Solar Collector	9	DHW Tank sensor
6	Collector Temp. Sensor	10	Air Vent
7	Pump Station		



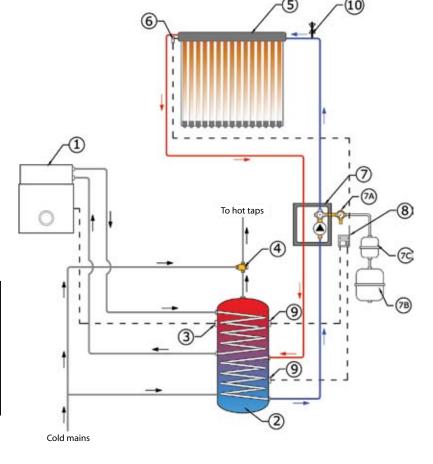






No. of Persons	No. of collectors	Tank Size (I)
2-4	2 x CPK7210-N Flat Panel collectors 2 x CVSKC-10 Vacuum Tube collectors 30 - 40 TZ58-1800 heat pipes	200
4-6	3 x CPK7210-N Flat Panel collectors 3 x CVSKC-10 Vacuum Tube collectors 40 - 60 TZ58-1800 heat pipes	300

 $\label{to Solar Thermal Systems available from Firebird.}$



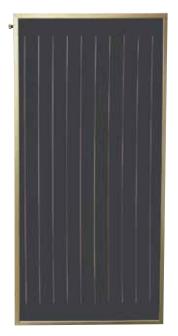






The solar kits below include collector(s), roof mounting fixtures for pitched roof, controller, pump station, anti-scald mixing valve, air vent & isolating valve, glycol solar anti-freeze and 2 x 1m flexi pipe fittings.

5.7	
Sales Code	Description
	FLAT PANEL ON-ROOF
SOL950FKT	Flat Panel On-Roof Kit - 1 Panel for pitched roof
SOL951FKT	Flat Panel On-Roof Kit - 2 Panels for pitched roof
SOL952FKT	Flat Panel On-Roof Kit - 3 Panels for pitched roof
SOL953FKT	Flat Panel On-Roof Kit - 1 Panel for flat roof
SOL954FKT	Flat Panel On-Roof Kit - 2 Panels for flat roof
SOL955FKT	Flat Panel On-Roof Kit - 3 Panels for flat roof
	FLAT PANEL IN-ROOF
SOL922TRG	Flat Panel In-roof Kit for Tiled Roof - 2 Panels
SOL923TRG	Flat Panel In-roof Kit for Tiled Roof - 3 Panels
SOL922SRG	Flat Panel In-roof Kit for Slate Roof - 2 Panels
SOL923SRG	Flat Panel In-roof Kit for Slate Roof - 3 Panels
	VACUUM TUBE ON-ROOF
SOL960VKT	Vacuum Tube Kit - 1 tube sets for pitched roof
SOL961VKT	Vacuum Tube Kit - 2 tube sets for pitched roof
SOL962VKT	Vacuum Tube Kit - 3 tube sets for pitched roof
SOL963VKT	Vacuum Tube Kit - 1 tube sets for flat roof
SOL964VKT	Vacuum Tube Kit - 2 tube sets for flat roof
SOL965VKT	Vacuum Tube Kit - 3 tube sets for flat roof



CPK7210-N Flat Panel Collector

Firebird's CPK7210-N Flat Panel Collector is one of the most efficient collectors in the world, with an optical efficiency of 81.8%. One of the unique features of the CPK7210-N is that the collector base is extruded from a single aluminium sheet thus removing the need for welds, joints or glueing at the corners. Other features:

- Glass is a special tempered solar glass.
- Absorber is constructed from a single sheet of Tinox™ selective absorber coating.
- Heat transfer pipes behind the absorber are ultrasonically welded along the entire length to ensure optimal heat transfer.
- 50mm of mineral wool insulation.

Sales Code Description
SOL100FPC CPK7210-N Flat Panel Collector



CVSKC-10 Vacuum Tube Collector

The CVSKC-10 Vacuum Tube Collector is a U-pipe direct flow evacuated tube, often referred to as a 'Sydney' tube. They are amongst the most efficient solar collector designs due to the CPC reflector aluminium plate behind the tubes. It reflects solar radiation back onto the absorber.

Other features:

- Delivered assembled to cut down installation time.
- Co-axial glass tubes with excellent vacuum ~5 Pascals.
- Transfer manifold insulated with mineral wool insulation.
- Light weight construction for ease of handling.

Sales Code Description

SOL150VTC CVSKC-10 Vacuum Tube Collector



TZ58-1800 Heat Pipe Collector

The TZ58-1800 Heat Pipe Solar Collectors offer an optimum performance to price ratio. The tubes are highly efficient due to a round shaped absorber design so that they capture the solar energy throughout the day.

Other features include:

- · High build quality aluminium manifold design, nickel plated condenser head, borosilicate glass.
- · Manifold can be installed initially and the tubes added later during commissioning (avoiding the lifting of heavy items onto the roof).
- · Reinforced mounting kit manufactured to Firebird's specification.

TZ58-1800 Heat Pipe Solar Collector

Includes roof fixtures (Pitched on-roof mounting kit)

Description **Sales Code** SOL820VTS 20 Tube Heat Pipe Set SOL830VTS **30 Tube Heat Pipe Set** Flat on-roof mounting kit (20 Tube Set) SOL174FRK

Flat on-roof mounting kit (30 Tube Set) SOL172FRK



Inc. solar collector, roof fixtures, expansion vessel, glycol, solar controller and pump station

Pitched on-roof kit

Sales Code Description SOL822KIT 20 Tube Heat Pipe Kit **30 Tube Heat Pipe Kit** SOL832KIT **40 Tube Heat Pipe Kit** SOL842KIT SOL852KIT **50 Tube Heat Pipe Kit** SOL862KIT **60 Tube Heat Pipe Kit**

Flat on-roof kit

Sales Code Description

SOL822KIT X 1, SOL174FRK X 1 20 Tube Heat Pipe Kit **SOL832KIT X 1, SOL172FRK X 1** 30 Tube Heat Pipe Kit 40 Tube Heat Pipe Kit **SOL842KIT X 1, SOL174FRK X 2 SOL852KIT X 1, SOL174FRK X 1, SOL172FRK X 1** 50 Tube Heat Pipe Kit **SOL862KIT X 1, SOL172FRK X 2 60 Tube Heat Pipe Kit**

Technical Specifi	cation	CPK7210-N Flat Panel	TZ58-1800 20 tube set	Heat Pipe 30 tube set	CVSKC-10 Vacuum Tube
Outer dimensions:	Height [mm]	2038	2020	2020	1645
	Width [mm]	1039	1825	2655	1115
	Depth [mm]	98	155	155	107
Tube dimensions	Diameter [mm]	-	58	58	37
	Length [mm]	-	1800	1800	1550
Weight	[kg]	38	78	115	31
Gross collector area	[m2]	2.11	3.507	5.005	1.83
Aperture area	[m2]	1.88	1.867	2.791	1.59
Max operating pressure	[bar]	10	6	6	10
Stagnation temperature	[°C]	216	200	200	286
Angle of inclination permitted		15° to 75°	15° to 75°	15° to 75°	15° to 75°
Performance data *					
Zero-loss collector efficiency	η0	74.1%	73.4%	73.4%	60.5%
Collector heat loss coefficient, a1	[W/m² K]	3.705	1.529	1.529	0.850
Collector performance ratio, a2	$[W/m^2 K^2]$	0.015	0.0166	0.0166	0.010
Absorption		> 95%	> 94 %	> 94 %	> 96%
Emission		< 5%	< 7%	< 7%	< 6%
Annual energy yield	[kWh/m²]	> 525	> 525	> 525	> 529

^{*} All based on aperture area.





FIXING OPTIONS

PITCHED ROOF

All Firebird solar collectors can be installed on a normal slate or tiled roof using our weather-proof aluminium mounting frame kits. Mounting kits are constructed from robust materials and come with easy to follow instructions. Mounting kits for CPK7210-N Flat Panel collectors and CVSKC-10 Vacuum Tube collectors are available for double and single collector configurations. Mounting kits for TZ58-1800 Heat Pipe Solar collectors are supplied for sets of 20 and 30 tubes.

Sales Code Description

SOL101FMT On-roof Mounting Kit - 2 CPK7210-N Flat Panel collectors SOL103FMT On-roof Mounting Kit - 1 extra CPK7210-N Flat Panel Collector SOL151VMT On-roof Mounting Kit - 2 CVSKC-10 Vacuum Tube collectors SOL153VMT On-roof Mounting Kit - 1 extra CVSKC-10 Vacuum Tube Collector



IN-ROOF

An in-roof installation kit is available for CPK7210-N Flat Panel collectors. Note that in-roof installation is not possible with CVSKC-10 Vacuum Tube collectors or TZ58-1800 Heat Pipe Solar collectors. With an in-roof kit the collectors are set lower on the roof giving a more aesthetically pleasing finish. Our in-roof kit comes with side, top and bottom flashings, collector mounting rails, coach bolts, rubber seals and installation instructions. Available in double and single collector configurations - For slate roofs, order SOL513SRS and SOL511TRF.

Description **Sales Code**

In-Roof Mounting Kit Tile Roof - 2 CPK7210-N Flat Panel collectors SOL511TRF **In-Roof Mounting Kit Tile Roof** - 1 extra CPK7210-N Flat Panel Collector SOL512TRF

In-Roof Soaker Kit Slate Roof SOL513SRS - Soakers only



FLAT ROOF INSTALLATION

If solar collectors have to be installed on a flat roof or surface, then a flat roof mounting kit is required. Flat roof kits are available for all collectors and come with mounting frame, coach bolts, rubber seals and installation instructions. Available in double and single collector configurations.

Sales Code Description SOL102FMT Flat Roof Kit - 2 CPK7210-N Flat Panel collectors SOL104FMT Flat Roof Kit - 1 extra CPK7210-N Flat Panel Collector - 2 CVSKC-10 Vacuum Tube collectors SOL152VMT Flat Roof Kit SOL154VMT Flat Roof Kit - 1 extra CVSKC-10 Vacuum Tube Collector **Flat Roof Kit** SOL174FRK - 20 TZ58-1800 Heat Pipe Solar Collector - 30 TZ58-1800 Heat Pipe Solar Collector SOL172FRK Flat Roof Kit



SOLAR CONTROLLERS & PUMP STATIONS

CONTROLLER

The Firebird solar controller ensures the efficient operation of the solar system, managing the efficient transfer of the solar energy from the collectors to the water storage tank. The controller is easy to use and displays key system data at the touch of a button, i.e.:

- Collector temperature.
- Upper and lower tank temperatures.
- · Activation of solar circulating pump.
- · Hours of operation.
- Alternative arrangement layouts.
- Pump speed efficiency.
 Emergency safety shut off.
- Additional anti-freeze functions.
- Easy to use holiday function.
- · Anti-legionella control.

In addition the controller has a second available relay that facilitates features such as:

- Back-up heat source available for central heating or immersion connection.
- Timer set up for back up heat source heating.
- · Surplus energy usage.

PUMP STATION

The Firebird solar pump station houses the key plumbing components for a solar system including solar circulating pump, non return gravitational values, flow rate regulator, pressure relief value, connection for expansion vessel as well as filling points.

Sales Code

Deltasol BS4 Controller & Twin Pump Station SOL414CTR



EAST / WEST CONTROLLER & PUMP STATION

For East / West installations, a special controller (BS4 Plus) is required along with an extra single line pump station to cater for the additional collector array.

Sales Code Description

Deltasol BS4 Plus Controller, Twin Pump Station & Single SOL424CTR



WATER STORAGE TANKS

The solar twin coil tank is used to store hot water heated by the solar system. The tank has two internal coils, the solar circuit provides heat through the lower coil while the back-up heating system (boiler) will heat the hot water via the upper coil.

Firebird water storage tanks are built from premium quality stainless steel and include an electric immersion as standard.

Sales Code Description

SOL215ITK Twin Coil Solar Tank, 215 litres
SOL255ITK Twin Coil Solar Tank, 255 litres
SOL305ITK Twin Coil Solar Tank, 305 litres
SOL305TCT Triple Coil Solar Tank, 305 litres





OTHER SYSTEM COMPONENTS THE FOLLOWING COMPONENTS MAY BE SUPPLIED AS STANDARD ON CERTAIN SOLAR SYSTEM KITS

EXPANSION VESSELS

An expansion vessel is necessary to absorb the expansion of the solar fluid when high temperatures are reached in the solar collector.

Currently available sizes are 24 and 35 litres.

Sales Code Description

SOL502EXP 24 litre Expansion Vessel SOL503EXP 35 litre Expansion Vessel



The heat transfer fluid used in a solar circuit is normally a mixture of water and a polypropylene glycol anti-freeze. The glycol anti-freeze also contains an additive to

protect against corrosion and evaporates at higher temperatures than water to allow higher system temperatures. Firebird recommends a 40% glycol to 60% water mix to ensure frost protection to circa -25°C.

Sales Code Description

SOLAR ANTI-FREEZE

SOL506FFL Tyfocor L Anti-freeze for CPK7210-N Flat Panel Collector

SOL507VFL Tyfocor LS Anti-freeze for Tube System

INTERMEDIATORY VESSELS

Sales Code Description

SOL505EXP Intermediatory Vessel, 5 litre SOL012EXP Intermediatory Vessel, 12 litre



ANTI-SCALD MIXING VALVE

Anti-scald (mixing) valve must be fitted close to the hot water outlet of the solar tank so that delivery to the taps does not exceed 48°C

Sales Code Description

SOL504MIX Anti-scald Mixing Valve



ACCESSORY KIT - EXPANSION VESSEL

Expansion vessel accessory kit includes check valve, wall bracket and 1 flexi hose.

Sales Code Description

SOL521PPK Expansion Vessel Accessory Kit



AIR VENT

An automatic air vent should be fitted at the highest point in the solar circuit system in order to remove air from the system during commissioning. An isolating valve should be fitted before the air vent and isolated once the system has been commissioned.

Sales Code Description
SOL501AIR Air Vent
SOL505STP Isolating Valve



STAINLESS STEEL INSULATED TWIN PIPE

Flexible pre-insulated twin pipe with UV protection sheath for linking collectors to solar tank. Saves considerable installation time and money.

Sales Code Description

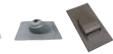
SOL010TWP Insulated Twin Pipe DIN16 – 10m SOL015TWP Insulated Twin Pipe DIN16 – 15m SOL025TWP Insulated Twin Pipe DIN16 – 25m



PIPE FLASHING

The pipe flashings provide a tidy solution for passing solar flow and return pipes through the house roof.





Sales Code Description

SOL509TRF Pipe flashing; Tiled roof SOL510SRF Pipe flashing; Slate roof

SOL524VTL Glidevale G1 Vent Tile (BBA/IAB Approved)

FLEXI PIPES, 1M

High grade 1m stainless steel flexi pipes which can be connected to the flow and return side of the collector array. This saves the installer having to make complicated pipe bends through the roof of the house. Fittings can be included to connect the pipe to the different solar collector types.

Sales Code Description
SOL402FPP 1m Flexi Pipe

SOL001ELB & SOL001FEM Fittings for CPK7210-N Flat Panel Collector SOL075ELB & SOL075TAP Fitings for CVSKC-10 Vacuum Tube and

TZ58-1800 Heat Pipe Solar collectors

ACCESSORIES

SOL526RLY

Sales Code	Description
SOL514FPC	Weather-proof Cover for CPK7210-N Flat Panel Collector
SOL515VTC	Weather-proof Cover for CVSKC-10 Vacuum Tube Collector
SOL000FPS	Solar Filling & Flushing Pump
SOL527RFR	Refractometer
SOL528CFL	Solar Cleaning Fluid, 500ml
SOL000BOV	Blow-off Storage Vessel
SOL010TSV	TSV Lightning Protection (for controller)

Auxilary Relay HR230 (for controller)



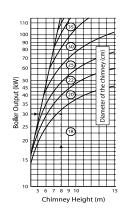


Accumulation Tank

An accumulation tank must be used in conjunction with the Firebird wood gasification boiler. The recommended sizing is a minimum 50 litres of water storage for every 1 kW of rated output. Firebird recommend a 2,000 litre tank.

Flue

Having the right draft and flue construction is critical to the operation of the wood gasification boiler. Flue height must be according to the chart (on right).



Technical Data

Model		35
Rated thermal output	(kW)	35
Boiler water content	(litres)	96
Boiler weight	(kg)	515
Max. volume of wood	(litres)	144
Max. length of the log	(mm)	550
Flue diameter	(mm)	200
Depth	(mm)	1290
Height	(mm)	1385
Width	(mm)	725
Min. accumulator tank	(litres)	2000

Sales Code WGB035BLR WGB200TNK WGB200KIT WGB000PGS WGB000TSV

Wood Gasification Boiler 35 2000 Litre Accumulation Tank 200mm Wood Gas Twin Wall Flue Kit **Pump Changing System Ladomat 21** Thermal Safety Valve

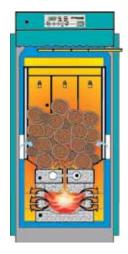
Wood Gasification Boiler

The Firebird wood gasification boiler represents the very latest in high efficiency wood burning.

Gasification is achieved in wood burning when gases released from the combusting wood are mixed with a regulated supply of oxygen to create a complete oxidation process. This results in extremely high combustion efficiencies and minimal ash waste.

Wood gasification boilers can only be used to burn split logs or wood briquettes. Coal, peat, refuse, etc. can not be used in these boilers. The best woods are hard woods like Ash, Oak & Beech (moisture content must be 20% or less).





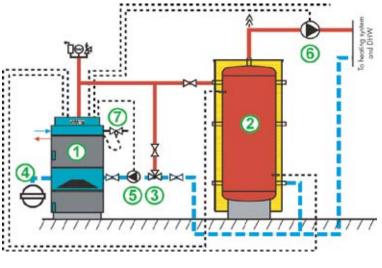
System layout

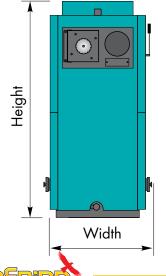
A suggested schematic diagram for a wood gasification boiler can be seen below. For an unvented (pressurised) system, a thermal safety valve must be installed.

- 1 Wood Gasification Boiler
- 2 Accumulation Tank

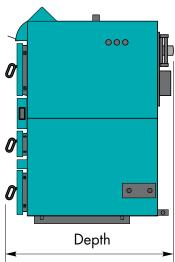
4 - Expansion Vessel

- 3 Three Way Thermostatic Valve
- 5 Boiler Pump
- 6 Circulation Pump
- 7 Thermal Safety Valve





HEATING SOLUTIONS



Wood Pellet Boiler

Firebird's wood pellet boiler represents the very latest in carbon neutral heating for use in domestic and light commercial applications.

Features

High efficiency

Firebird wood pellet boilers have efficiencies in the high 80's due to their highly efficient operation and well insulated boiler shell. The large chamber design ensures that the boiler does not clog up with ash.

Heating comfort

This wood pellet boiler is fully automatic in its operation. On start up, an electric heater ignites the pellets and the digital controller manages the entire operation. The boiler is fully modulating in that the feed rate of pellets is varied, depending on the boiler temperature and heating demand.

Ease of cleaning

All maintenance points are easily accessible and a set of cleaning tools and brushes are supplied. The burner is on a hinged door and can be opened by hand. The burner grate, which should be cleaned weekly, is fully retractable.

Automated control

The digital controller located at the top of the boiler is designed to be user friendly. The main boiler functions can be controlled from here and key system parameters entered.

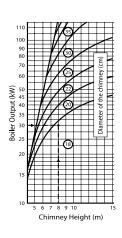
Fuel

Only certified wood pellets approved to EN14961 may be burned in the Firebird wood pellet boilers. The below fuel characteristics must be adhered to.

- calorific value > 5 kW/kg (18 MJ/kg)
- diameter = 6 mm max. length = 35 mm
- max. humidity = 8% max. dust = 0,5%

Flue

Ensuring the correct size flue is critical to the operation of any biomass boiler. The chart on the right outlines the minimum flue diameter and height required for the different boiler outputs.



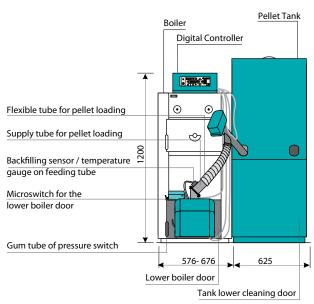


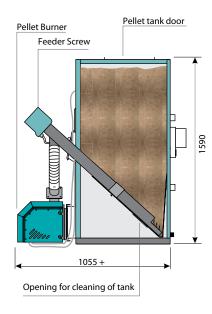
Model		25	35	
Rated thermal output	(kW)	25	35	
Boiler water content	(litres)	90	101	
Boiler weight	(kg)	435	475	
Flue diameter	(mm)	150	160	
Power supply	230 V AC / 50Hz			

Outer dimensions (boiler & tank)			
Height	(mm)	1590	1590
Depth	(mm)	1055	1055
Width	(mm)	1201	1301

Sales Code Wood Pellet Boiler Wood Pellet Flue Kit Wood Pellet Auger & Hopper

25 FWP025NKT FWP025FLU FWP000FED 35 FWP035NKT FWP035FLU FWP000FED









Inset Stoves

Firebird based their first inset stove on their very first product, the Supreme backboiler. Following on from the overwhelming success of the multifuel backboiler stove, they launched the multifuel dry inset stove. The Firebird inset stove range now consists of three types of inset stoves:

- Multifuel backboiler stove.
- · Multifuel dry stove.
- Smoke exempt dry inset stove.







Multifuel Backboiler Inset Stove

All the comfort of a stove with the benefit of heat to your house as well

Features

- Designed to fit into a standard fireplace.
- · Easy to install.
- Clean, easy operation.
- · Solid multifuel options.
- Suitable for airtight dwellings where underfloor, external air-in ducting is provided.
- Glass air wash design.
- Enamel option available.
- Up to 12kW heat supplied to dwelling/radiators.
- Reduces your heating bills.
- Available in 12kW and 16kW.
- 5 year warranty.
- HETAS approved.

Output

- Up to 81% efficiency.
- Up to 12kW heat supplied to dwelling/radiators.



Multifuel Dry Inset Stove

a stove designed for your comfort

Features

- Designed to fit into a standard fireplace.
- Easy to install.
- Clean, easy operation.
- Solid multifuel options.
- Suitable for airtight dwellings where underfloor, external air-in ducting is provided.
- Glass air wash design.
- Up to 8.2kW heat supplied to space (room).
- Available in 6.9kW and 8.2kW.
- 5 year warranty.
- HETAS approved.

Output

- Up to 75.6% efficiency.
- Up to 8.2kW heat supplied to space/room.



Smoke Exempt Dry Inset Stove

Ideal for a new build and to assist with BER compliance

Features

- Smoke exempt
- Wood & authorised smokeless fuel.
- Clean burn technology.
- Easy to install.
- Clean, easy operation.
- Suitable for airtight dwellings where underfloor, external air-in ducting is provided.
- Up to 5kW heat supplied to space (room).
- Glass air wash design.
- 5 year warranty.
- Smoke exempt DEFRA approved.
- HETAS Approved.

Output

- Up to 75.9% efficiency.
- Up to 5kW heat supplied to space/room.









Specification

Dry Inset Stove	Product	Sales Code Output	Room	Efficiency	Weight kg	Height (mm)	Inset Width (mm)	Depth (mm)
	6.9kW	MAX016DRY	6.9kW	74.4%	95	560	406-470	375
	8.2kW	MAX018DRY	8.2kW	75.6%	102.4	560	455-520	375
Exempt	Product	Sales Code Output	Room	Efficiency	Weight kg	Height (mm)	Inset Width (mm)	Depth (mm)
Smoke Inset	5kW	MAXSE5DRY	5kW	75.9%	102.4	560	455-520	375
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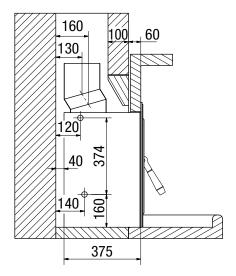
Product	Sales Code Matt	Sales Code Enamel	System Output	Room Output	Efficiency	No. of Standard Radiators	Weight kg	Height (mm)	Inset Width (mm)	Depth (mm)
12kW	MAX <mark>016</mark> 000	MAX016NML	8.3kW	3.6kW	80%	6	96.6	560	406-470	375
16kW	MAX018000	MAX018NML	12.1kW	3.6kW	81%	9	105	560	455-520	375

^{*} Room seal kit available: 16" - ACC016RSK, 18" - ACC018RSK

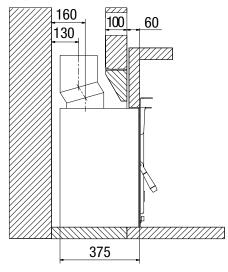
Note: The outline is similar for all stoves. The dimensions for the sockets are not relevant for the dry and smoke exempt wood burning stoves. All dimensions are relevant to stove/boiler section. Outer face framework is not taken into account. Dimensions are measured from pipe socket to socket, ie. 16" from outer pipe connection to outer pipe connection. To comply with Building Regulations and in order for the stove to operate effectively, an air vent and draught of at least 12 Pa is required.

Dimensions (mm)

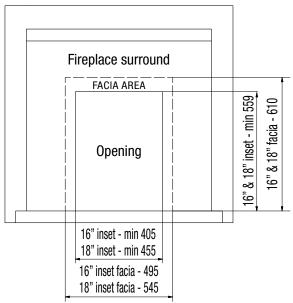
Backboiler Inset Stove

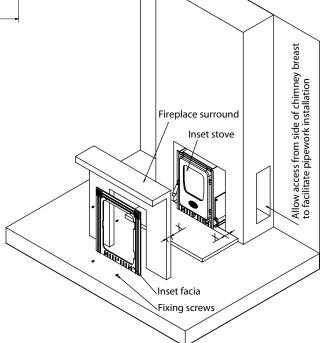


Dry & Smoke Exempt Inset Stove



Backboiler, Dry & Smoke Exempt Inset Stoves





Tanks & Exchangers

Firebird Insulated Tanks

Firebird have a new range of tanks to accommodate multi system installations. The tanks are produced to Firebird's highest quality standards and are all fitted with a 120mm insulation jacket.

Sales Codes: Range:

A SOL500TNK 500L Insulated Tank (direct)

B SOL500SCT 500L Insulated Tank (with single coil)

C SOL500ITK 500L Insulated Tank in Tank

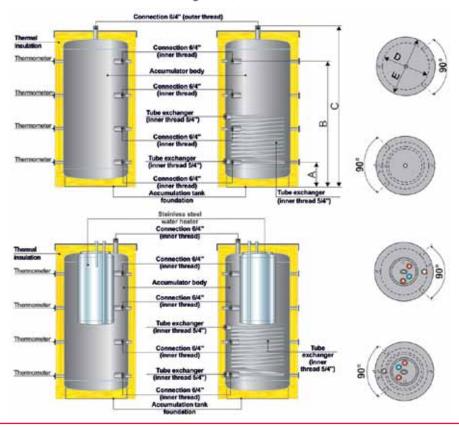
B SOL800SCT 800L Insulated Tank (with single coil)

D SOL800ITK 800L Insulated Tank in Tank (with single coil)

B SOL1000CT 1000L Insulated Tank (with single coil)

D SOL1000TK 1000L insulated Tank in Tank (with single coil)





Transfer Tanks & Exchangers

Firebird has launched a range of transfer tanks that facilitate multi-system design and retrofits. These include the junction buffer 2-4 box, with 24 litre capacity and the solid fuel heat exchanger, with 22 litre capacity. Both boxes are designed to accommodate multiple heating systems within a typical dwelling. They can also facilitate the integration of an additional system (i.e. stove) into an existing heating unit.



Firebird Junction Buffer 2-4 Box

- For zone systems, under floor heating and multi-function systems.
- Capacity for integration of new system (e.g. air to water) to link into existing system.
- · Reduce boiler cycling issues.
- 4mm steel shell, fully insulated and external green casing as standard.

Sales Code: ACCJNCBOX



Firebird Solid Fuel Heat Exchanger

- Solid fuel/pressurised system integration.
- Easy to install, ground / wall mounted.
- Water volume storage to comply with regulations.
- · White case finish.

Sales Code: ACCSFHEXH



Warranty

Complete After-Sales Service

Firebird has always provided their customers with the highest levels of after sales care. All products are supported by a nationwide network of independent service engineers who are regularly trained on our appliances.

Boiler Passport

An OFTEC co-ordinated "Boiler Passport" booklet is included with every oil boiler shipped from our factory. This passport will stay with the boiler, much like a car's service log book. The commissioning certificate page is on multipart carbon paper and one copy must be completed by an OFTEC registered or competent, qualified engineer and returned to Firebird in the enclosed prepaid envelope within 28 days of commissioning.





installation, provided

Our Warranty Policy

OIL-FIRED BOILERS

Firebird offers a 5 year warranty on the boiler shell and a 2 year warranty on all other parts from date of installation, provided installation has occurred within 12 months from date of purchase. The 5 year boiler shell warranty consists of labour and parts for the first 3 years and parts only in years 4 and 5. The warranty is conditional on the boiler being commissioned and operated correctly. To validate your warranty, Firebird require that the commissioning certificate page in the Boiler Passport is completed by an OFTEC registered or competent, qualified engineer and returned to Firebird within 28 days of installation and commissioning.

SOI AR

Firebird offers 5 years warranty on all solar collectors and 2 years warranty on all other parts from date of installation has occurred within 12 months from date of purchase.

INSET STOVES

Firebird offers a 5 year warranty on the inset stove shell and a 2 year warranty on other parts from date of installation, provided installation has occurred within 12 months from date of purchase. The 5 year inset stove shell warranty consists of labour and parts for the first 3 years and parts only in years 4 and 5. The warranty is conditional on the stove being commissioned and operated correctly. To validate your warranty, Firebird require that the warranty registration form (at the back of the instruction manual) is completed by a competent, qualified engineer and returned to Firebird within 28 days of installation and commissioning.

BIOMASS BOILERS

Firebird offers 5 years warranty on the boiler shell and 2 years warranty on all other parts from date of installation, provided installation has occurred within 12 months from date of purchase.

Full terms and conditions of Firebird's warranty programme can be viewed on www.firebird.ie

Delivery Charges

Most orders are delivered to UK mainland customers within 1 to 2 working days. Our delivery charges to UK mainland customers are set out below. Firebird reserves the right to amend these charges at short notice. In all cases delivery times quoted are estimates only. No subsequent liability will be accepted by us for any late deliveries howsoever caused.

BOILERS / SOLA	R KITS	FLUES PARTS 8	ACCESSORIES	SPARE PARTS / SOLAR PARTS		
Standard Delivery	No charge	Flue Parts *	£10.00	Net order value over £100.00	No charge	
Next Day AM	£35.00	Flue Kits *	£25.00	Net order value under £100.00	£10.00	
Next Day Timed	£50.00	Flexi Flue Kits *	£45.00	Next Day AM	£17.00	
		* No charge if sent with boiler order		Saturday delivery	£30.00	

Delivery charges are for business addresses only - delivery to private addresses may incur an additional charge. We will advise if there are any additional carriage charges once we've received the order details.

Restocking Charges

Surplus goods returned for credit will incur a 15% restocking charge. Collection charges will also apply as follows:

Boilers/Solar Kits £75.00 (per pallet)

Flue Kits £45.00 Parts – Flues, Solar or Spares £20.00 www.firebirduk.co.uk www.firebird-solar.com



FIREBIRD HEATING SOLUTIONS

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