

THE MAIN RANGE GUIDE

JOB DONE



The Main range of affordable combi, system
and heat only boilers, cylinders and water heaters.

MAIN

WITH MAIN IT'S

JOB DONE

At Main, we only offer products and services that are straightforward, effective, efficient – and don't break the bank.

That means a wide range of reliable, easy-to-install, low maintenance boilers, cylinders and water heaters – as well as a training and support service that offers help when you want it.

It's everything you need. It's JOB DONE.



Our range

Main has a wide range of award-winning combi, system and heat only boilers – in a range of outputs to suit every job. So whether you're replacing an old boiler or installing a new system, we have everything you need to get the job done.

Of course, we don't just offer boilers and accessories. We also have a range of unvented hot water cylinders to complement them. You'll find all the details you need on all our products in this easy-to-understand brochure – including technical specifications and flue options.



Our service

To make it easier for you to get the job done, we offer FREE training courses and technical support, so you'll always have the very latest Main product knowledge. And because our dedicated training centres are spread across the UK, you'll always be within easy reach, wherever you are.

Although our products are easy to install and simple to maintain, sometimes you just need a bit of help and advice. That's why we also have **heateam** – Main's dedicated team of 280 engineers on hand 7 days a week.

You can reach them on 0844 871 1571, and there's more about them on page 38.



Our promise

As part of the Baxi Group, we understand what you need from a boiler manufacturer and we offer you just that. But we don't expect you to just take our word for it. We were awarded the 2009 CORGI Heating Manufacturer of the Year and have now been nominated for the 2010 Awards. That should give you the peace of mind you need to install with confidence – while our 2-year warranty[†] gives you the security of total technical support if problems do arise.



Our heritage

We've been designing and building boilers in the UK for more than 75 years, working to the highest standards and ensuring the highest quality.

It's given us a proud reputation for excellence in our industry – a reputation that's strengthened with each outstandingly reliable boiler, cylinder or water heater we develop.




It all means that when you install Main, you install a product you can depend on to get the job done.




[†] See page 39 for details



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 SEDBUK Band A (>90%)

THE MAIN COMBI ECO

SIMPLY **A** RATED

PERFECT FOR:

- Replacing existing combi boilers
- Upgrading traditional systems to remove large storage tanks
- Energy-efficient heating and hot water
- Instant hot water, 24/7



Easy installation

The Main Combi Eco is designed to offer fuel efficiency to your customers, while keeping things simple for you. It has a central flue, making it ideal for boiler replacements, while the pre-plumbing jig saves time and money by helping you get the pipework in the right place, first time.

When it comes to wiring, this boiler couldn't be more installer-friendly. The dedicated electrical power terminal is easily accessible and housed separately to the PCB, making the job quick and easy to finish.



A-rated value

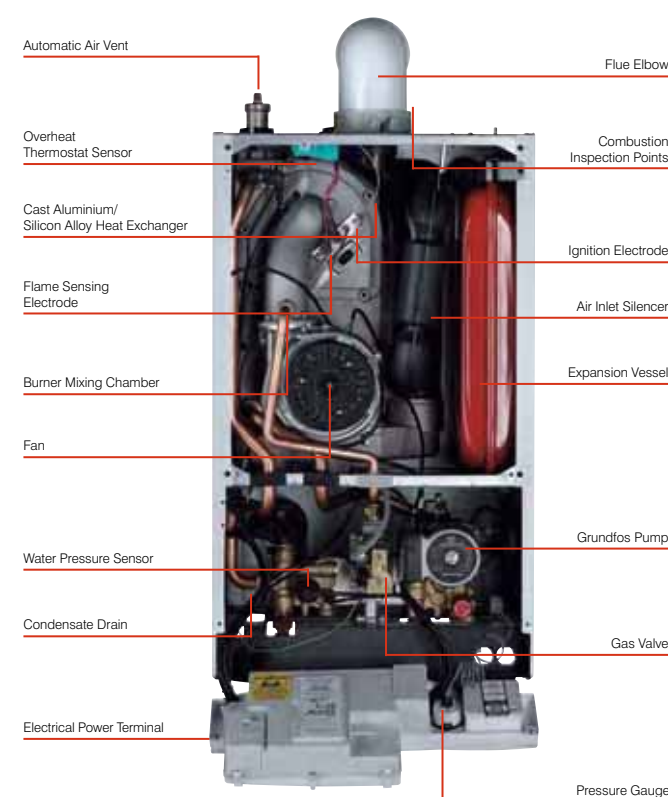
With over 90% efficiency, the Main Combi Eco is our most efficient boiler, meaning it has lower carbon emissions and consumes less fuel. That's better for the planet and better for your customers.



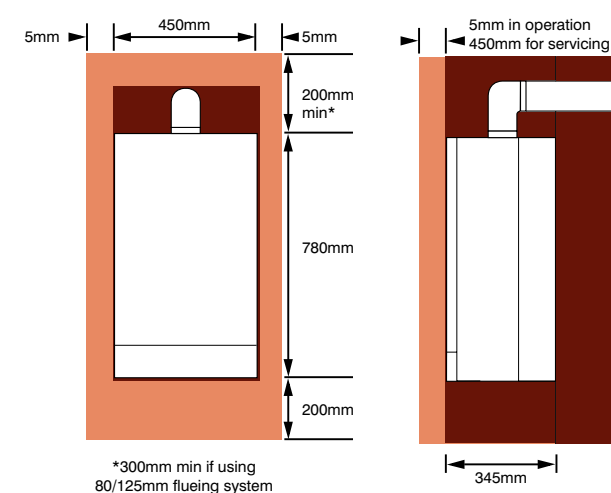
Low maintenance

We combine simple design with high-quality parts, like a Grundfos pump. The user-friendly controls, integral frost protection and quiet operation (less than 50 dBA), should give you complete peace of mind. If something does go wrong, though, you can rest assured that our 2-year warranty† on all band A (>90%) boilers is there to back you up.

† See page 39 for more details



Dimensions and minimum clearances



Flap down on boiler for illustration purposes.

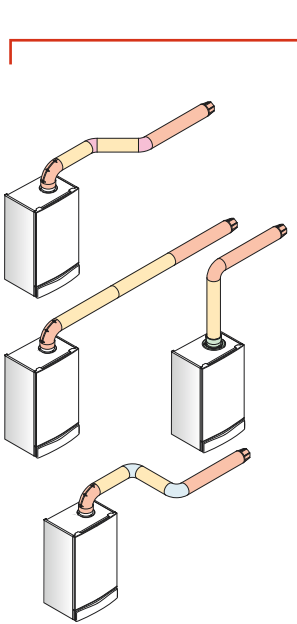
SPECIFICATIONS

Model	Units	Main Combi 25 Eco	Main Combi 30 Eco
Boiler only code		5116329	5118139
Controls			
User adjustable CH & DHW temperature		Yes	Yes
LED operating/fault status display		Yes	Yes
Integral 24 hr electro-mechanical timer		Optional	Optional
Integral 7 day electronic timer		Optional	Optional
Wireless programmable room thermostat		Optional	Optional
Gas			
Natural gas		Yes	Yes
Inlet supply pressure (Natural gas)	mbar	20	20
Gas rate	m³/hr	2.76	3.17
Heat input (maximum)	kW	28.92	33.3
Heat output – condensing (maximum)	kW	26.95	30.2
Heat output – condensing (minimum)	kW	8.37	9.42
Heat output – non-condensing (maximum)	kW	25.94	28.63
Heat output – non-condensing (minimum)	kW	7.61	8.56
Domestic hot water flow rate (maximum) @ 35°c rise	litres/min	10.2	12.3
Domestic hot water flow rate (minimum)	litres/min	2	2
Seasonal efficiency band	SEDBUK	A	A
NO _x	Class	5	5
Electrical			
Electrical supply	Volts/Hz	230/50	230/50
Power consumption	Watts	150	150
External fuse rating	Amps	3	3
Ingress protection rating (as supplied)		IPX4D	IPX4D
Pump overrun		Yes	Yes
24hr pump exercise		Yes	Yes
Integral frost thermostat (Boiler protection only)		Yes	Yes
Weight			
Installation lift weight	kg	47.5	47.5
Mechanical & Hydraulic			
DHW system pressure (maximum)	bar	8	8
DHW operating pressure (minimum)	bar	0.15	0.15
Safety pressure discharge	bar	3	3
Integral automatic bypass		Yes	Yes
CH system capacity (maximum)	litres	125	155
Gas supply pipe size	mm	22	22
Flow & return pipe size (CH)	mm	22	22
Flow & return pipe size (DHW)	mm	15	15
Temporary filling loop		Optional	Optional
Compartment ventilation required		No	No
Pre-plumbing jig		Standard	Standard
Flue Systems			
Standard concentric flue diameter	mm	60/100	60/100
Maximum equivalent length (60/100)	m	10	10

Flue options

Maximum permissible equivalent flue lengths are:		
	Main Combi 25 Eco	Main Combi 30 Eco
Concentric Horizontal (60/100)	10m	10m
Concentric Vertical (60/100)	10m	10m
Concentric Vertical (80/125)	20m	20m
Twin Pipe Vertical (80/80)	20m	20m
Any additional "in line" bends in the flue system must be taken into consideration. Their equivalent lengths are:		
Concentric Pipes	135° bend	0.5m
	93° bend	1.0m
Twin Flue Pipe	135° bend	0.25m
	90° bend	0.5m
The elbow supplied with the standard horizontal flue is not included in any equivalent length calculations.		

MULTIFIT – FLUE OPTIONS

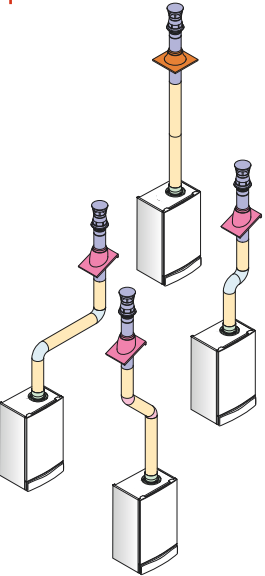


Horizontal Concentric Flues – 60/100mm

Flue system A – Maximum permissible equivalent flue length = 10m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

Item Description (MULTIFIT) Flue System A	Specification	Key & OD Dimensions	Multifit Sales Code
Standard Horizontal Flue inc Elbow	685mm	60/100	5118489
Flue Extension	1000mm	100mm	5111074
Flue Bend	93 degree	100mm	5111075
Flue Bend (Pair)	135 degree	100mm	5111085
Flue Bend	135 degree	100mm	5111076
Pipe Support	Painted White	100mm	5111080
Flue Through Wall Liner		100mm	5111067
Flue Terminal Deflector		60mm	5111068
Flue Vertical Adaptor (Boiler)	Main HE only	100mm	5111065

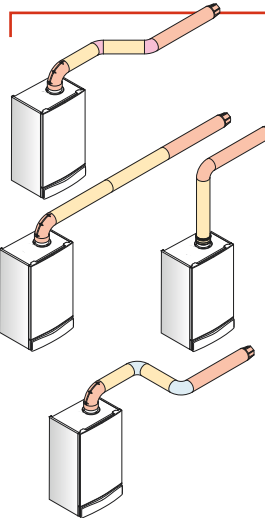
The 3° fall back on concentric flues can be reduced to 1.5° providing the flue system is adequately clamped in accordance with the installation instructions.



Vertical Concentric Flues – 60/100mm

Flue system A – Maximum permissible equivalent flue length = 10m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

Item Description (MULTIFIT) Flue System A	Specification	Key & OD Dimensions	Multifit Sales Code
Vertical Flue Terminal		125mm	5111078
Roof Cover Plate		125mm	246143
Flue Bend	93 degree	100mm	5111075
Flue Bend	135 degree	100mm	5111076
Flue Bend Pair	135 degree	100mm	5111085
Flue Extension	1000mm	100mm	5111074
Pipe Support	Painted White	100mm	5111080
Pitched Roof Flashing	25/50 degree	125mm	5122151
Flat Roof Flashing		125mm	246144
Flue Vertical Adaptor (Boiler)	Main HE only	100mm	5111065



Horizontal Concentric Flues – 80/125mm

Flue system G – Maximum permissible equivalent length = 20m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

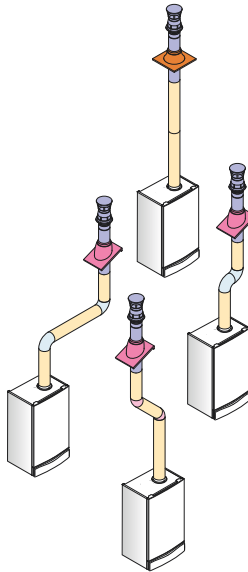
Item Description (MULTIFIT) Flue System G	Specification	Key & OD Dimensions	Multifit Sales Code
Standard Horizontal Flue inc Elbow	685mm	80/125	5118580
Flue Extension	1000mm	125mm	5118584
Flue Bend	93 degree	125mm	5118588
Flue Bend (Pair)	135 degree	125mm	5118597
Pipe Support	Painted White	125mm	5118610

The 3° fall back on concentric flues can be reduced to 1.5° providing the flue system is adequately clamped in accordance with the installation instructions.

Vertical Concentric Flues – 80/125mm

Flue system G – Maximum permissible equivalent length = 20m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

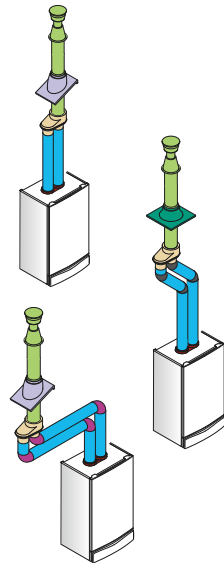
Item Description (MULTIFIT) Flue System G	Specification	Key & OD Dimensions	Multifit Sales Code
Vertical Flue Terminal		125mm	5111078
Vertical Flue Adaptor		125mm	5111070
Roof Cover Plate		125mm	246143
Flue Bend	93 degree	125mm	5118588
Flue Bend Pair	135 degree	125mm	5118597
Flue Extension	1000mm	125mm	5118584
Pipe Support	Painted White	125mm	5118610
Pitched Roof Flashing	25/50 degree	125mm	5122151
Flat Roof Flashing		125mm	246144



Twin Pipe Flues – 80/80mm

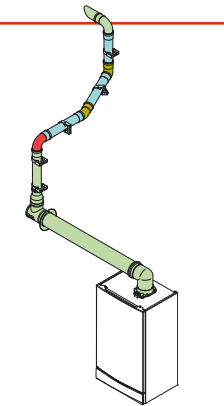
Maximum permissible equivalent flue length = 20m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.25m, 90° bend – 0.5m.

Item Description (MULTIFIT) Flue System N	Specification	Key & OD Dimensions	Multifit Sales Code
Twin Pipe Flue Adaptor (Boiler)		80/80mm	720089801
Twin to Concentric Adaptor 80/80 – 80/125		80/125mm	5111084
Twin Pipe Flue Bend (Pair)	90 degree	80mm	5111072
Twin Pipe Flue Bend (2 Pair)	135 degree	80mm	5111086
Twin Pipe Extension Pair inc Brackets)	1000mm	80mm	5111087
Twin Pipe Support (Pair)		80mm	5111081
Vertical Flue Terminal		125mm	5111078
Roof Cover Plate		100mm	246143
Pitched Roof Flashing		125mm	5122151
Flat Roof Flashing	25/50 degree	125mm	246144



Plume Displacement Kits – 60/100mm

Item Description (MULTIFIT) Flue System K	Specification	Key & OD Dimensions	Multifit Sales Code
Plume Displacement Kit inc Elbow + clips		100mm	5118638
Plume Displacement Kit Extension + clips	1000mm	60mm	5121368
Plume Displacement Kit Bend	93 degree	60mm	5121369
Plume Displacement Kit Bend (Pair)	135 degree	60mm	5121370



Please refer to page 36 for flue positioning guide.

THE MAIN SYSTEM ECO

SIMPLY **A** RATED

PERFECT FOR:

- Replacing old system boilers
- Providing energy efficient heating and domestic hot water
- Offering an easy-to-use solution to your customer



Easy installation

The Main System Eco is designed to offer you an energy efficient boiler for your customer, while keeping things really simple for you. Its central flue makes it ideal for boiler replacements, and its pre-plumbing jig helps you to get the pipework in the right place, first time. That saves you time as well as money.

The System Eco also boasts a built-in pump overrun and integral system bypass to prolong the life of the boiler.



A-rated value

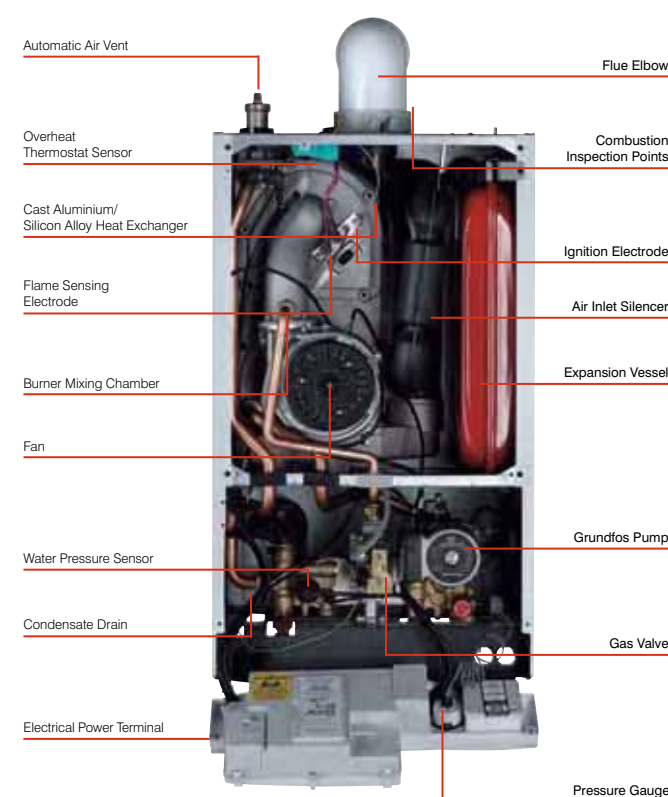
With over 90% efficiency, the Main System Eco is our most efficient system boiler, which means it has lower carbon emissions and consumes less fuel. That's great for the planet and your customers.



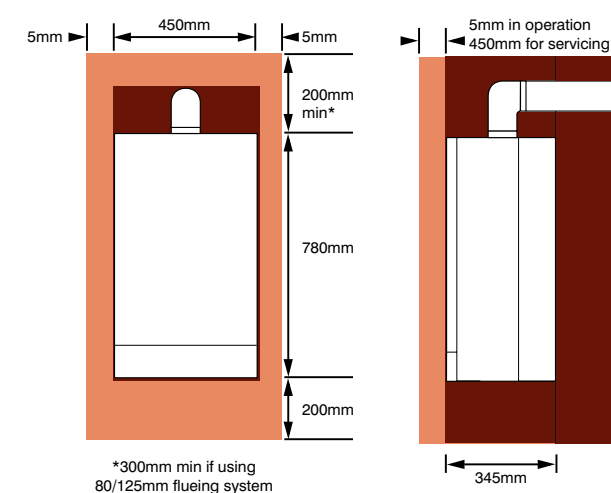
Low maintenance

With high quality components such as a Grundfos pump, you can trust the product you install to do the job without time-consuming call backs. If something does go wrong, you can rest assured that you have the back up of the 2-year warranty† on all Band A (>90%) boilers.

† See page 39 for more details



Dimensions and minimum clearances



SPECIFICATIONS

Model	Units	Main System 24 Eco	Main System 28 Eco
Boiler only code		5118141	5119734
Controls			
User adjustable CH temperature		Yes	Yes
LED operating/fault status display		Yes	Yes
Integral 24 hr electro-mechanical timer		Optional	Optional
Integral 7 day electronic timer		Optional	Optional
Wireless programmable room thermostat		Optional	Optional
Gas			
Natural gas		Yes	Yes
Inlet supply pressure (Natural gas)	mbar	20	20
Gas rate	m³/hr	2.76	3.10
Heat input (maximum)	kW	28.92	32.54
Heat output – condensing (maximum)	kW	26.95	30.20
Heat output – condensing (minimum)	kW	8.37	9.42
Heat output – non-condensing (maximum)	kW	25.94	28.63
Heat output – non-condensing (minimum)	kW	7.61	8.56
Domestic hot water flow rate (maximum) @ 35°C rise	litres/min	N/A	N/A
Domestic hot water flow rate (minimum)	litres/min	N/A	N/A
Seasonal efficiency band	SEDBUK	A	A
NO _x	Class	5	5
Electrical			
Electrical supply	Volts/Hz	230/50	230/50
Power consumption	Watts	150	150
External fuse rating	Amps	3	3
Ingress protection rating (as supplied)		IPX4D	IPX4D
Pump overrun		Yes	Yes
24hr pump exercise		Yes	Yes
Integral frost thermostat (Boiler protection only)		Yes	Yes
Weight			
Installation lift weight	kg	44.5	44.5
Mechanical & Hydraulic			
DHW system pressure (maximum)	bar	N/A	N/A
DHW operating pressure (minimum)	bar	N/A	N/A
Safety pressure discharge	bar	3	3
Integral automatic bypass		Yes	Yes
CH system capacity (maximum)	litres	125	155
Gas supply pipe size	mm	22	22
Flow & return pipe size (CH)	mm	22	22
Flow & return pipe size (DHW)	mm	N/A	N/A
Temporary filling loop		Optional	Optional
Compartment ventilation required		No	No
Pre-plumbing jig		Standard	Standard
Flue Systems			
Standard concentric flue diameter	mm	60/100	60/100
Maximum equivalent length (60/100)	m	10	10

Flue options

Maximum permissible equivalent flue lengths are:		
	Main System 24 Eco	Main System 28 Eco
Concentric Horizontal (60/100)	10m	10m
Concentric Vertical (60/100)	10m	10m
Concentric Vertical (80/125)	20m	20m
Twin Pipe Vertical (80/80)	20m	20m
Any additional "in line" bends in the flue system must be taken into consideration. Their equivalent lengths are:		
Concentric Pipes	135° bend	0.5m
	93° bend	1.0m
Twin Flue Pipe	135° bend	0.25m
	90° bend	0.5m
The elbow supplied with the standard horizontal flue is not included in any equivalent length calculations. There is also a Plume Displacement Kit Flue System available.		

MULTIFIT – FLUE OPTIONS

FLUE SYSTEM A

Horizontal Concentric Flues - 60/100mm

Flue system A – Maximum permissible equivalent flue length = 10m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

Item Description (MULTIFIT) Flue System A	Specification	Key & OD Dimensions	Multifit Sales Code
Standard Horizontal Flue inc Elbow	685mm	60/100	5118489
Flue Extension	1000mm	100mm	5111074
Flue Bend	93 degree	100mm	5111075
Flue Bend (Pair)	135 degree	100mm	5111085
Flue Bend	135 degree	100mm	5111076
Pipe Support	Painted White	100mm	5111080
Flue Through Wall Liner		100mm	5111067
Flue Terminal Deflector		60mm	5111068
Flue Vertical Adaptor (Boiler)	Main HE only	100mm	5111065

The 3° fall back on concentric flues can be reduced to 1.5° providing the flue system is adequately clamped in accordance with the installation instructions.

FLUE SYSTEM A

Vertical Concentric Flues - 60/100mm

Flue system A – Maximum permissible equivalent flue length = 10m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

Item Description (MULTIFIT) Flue System A	Specification	Key & OD Dimensions	Multifit Sales Code
Vertical Flue Terminal		125mm	5111078
Roof Cover Plate		125mm	246143
Flue Bend	93 degree	100mm	5111075
Flue Bend	135 degree	100mm	5111076
Flue Bend Pair	135 degree	100mm	5111085
Flue Extension	1000mm	100mm	5111074
Pipe Support	Painted White	100mm	5111080
Pitched Roof Flashing	25/50 degree	125mm	5122151
Flat Roof Flashing		125mm	246144
Flue Vertical Adaptor (Boiler)	Main HE only	100mm	5111065

FLUE SYSTEM G

Horizontal Concentric Flues - 80/125mm

Flue system G – Maximum permissible equivalent length = 20m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

Item Description (MULTIFIT) Flue System G	Specification	Key & OD Dimensions	Multifit Sales Code
Standard Horizontal Flue inc Elbow	685mm	80/125	5118580
Flue Extension	1000mm	125mm	5118584
Flue Bend	93 degree	125mm	5118588
Flue Bend (Pair)	135 degree	125mm	5118597
Pipe Support	Painted White	125mm	5118610

The 3° fall back on concentric flues can be reduced to 1.5° providing the flue system is adequately clamped in accordance with the installation instructions.

FLUE SYSTEM G

Vertical Concentric Flues - 80/125mm

Flue system G – Maximum permissible equivalent length = 20m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

Item Description (MULTIFIT) Flue System G	Specification	Key & OD Dimensions	Multifit Sales Code
Vertical Flue Terminal		125mm	5111078
Vertical Flue Adaptor		125mm	5111070
Roof Cover Plate		125mm	246143
Flue Bend	93 degree	125mm	5118588
Flue Bend Pair	135 degree	125mm	5118597
Flue Extension	1000mm	125mm	5118584
Pipe Support	Painted White	125mm	5118610
Pitched Roof Flashing	25/50 degree	125mm	5122151
Flat Roof Flashing		125mm	246144

FLUE SYSTEM N

Twin Pipe Flues - 80/80mm

Maximum permissible equivalent flue length = 20m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.25m, 90° bend – 0.5m.

Item Description (MULTIFIT) Flue System N	Specification	Key & OD Dimensions	Multifit Sales Code
Twin Pipe Flue Adaptor (Boiler)		80/80mm	720089801
Twin to Concentric Adaptor 80/80 – 80/125		80/125mm	5111084
Twin Pipe Flue Bend (Pair)	90 degree	80mm	5111072
Twin Pipe Flue Bend (2 Pair)	135 degree	80mm	5111086
Twin Pipe Extension Pair inc Brackets	1000mm	80mm	5111087
Twin Pipe Support (Pair)		80mm	5111081
Vertical Flue Terminal		125mm	5111078
Roof Cover Plate		100mm	246143
Pitched Roof Flashing		125mm	5122151
Flat Roof Flashing	25/50 degree	125mm	246144

FLUE SYSTEM K

Plume Displacement Kits - 60/100mm

Item Description (MULTIFIT) Flue System K	Specification	Key & OD Dimensions	Multifit Sales Code
Plume Displacement Kit inc Elbow + clips		100mm	5118638
Plume Displacement Kit Extension + clips	1000mm	60mm	5121368
Plume Displacement Kit Bend	93 degree	60mm	5121369
Plume Displacement Kit Bend (Pair)	135 degree	60mm	5121370

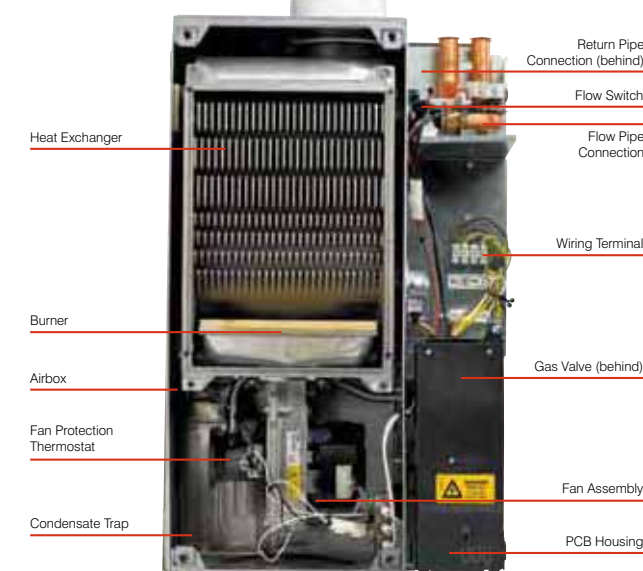
Please refer to page 36 for flue positioning guide.

THE MAIN HE A SIMPLY **A** RATED

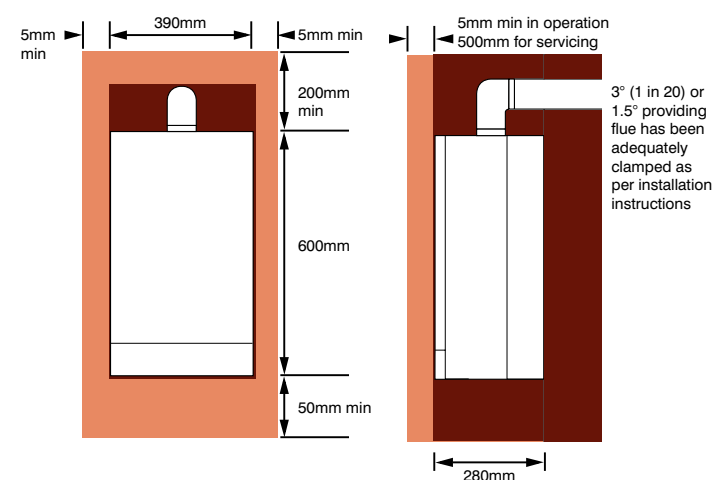
PERFECT FOR:

- **A-rated energy efficient heating**
- **Heat only boiler replacements**
- **A wide range of applications**
- 12kW to 30kW outputs
- **Cupboard fit**

NEW



Dimensions and minimum clearances



Easy installation

Like all our boilers, the new Main HE A is easy to install. It can be installed with push-fit or copper pipe, so plumbing it in is simple. The wiring is straightforward too as there is no need for a permanent live feed and no need for a pump overrun, you can just connect it to your existing power supply and it's job done!

It's lightweight, compact in size, has minimal installation clearances and comes with a range of flue systems and accessories for simpler and safer siting.

We also have a range of unvented hot water cylinders to work alongside our heat only boilers. And because we can offer the whole solution, you know our products are compatible and easy to specify.

A-rated value

With over 90% efficiency, the Main HE A is our most efficient heat only boiler, with lower carbon emissions and reduced fuel consumption – which is great for the planet and your customers.

Low-maintenance

Yes, our new Main HE A boilers won't cost the earth, but we know that call backs can be expensive. That's why we use quality components from trusted manufacturers – giving you complete confidence in their reliability. What's more, our simple design means we can keep the cost of our boilers down while limiting the number of problems that can occur. If something does go wrong, though, you can rest assured that our 2-year warranty† on all band A (>90%) boilers is there to back you up.

† See page 39 for more details



Condensation pipe not shown.

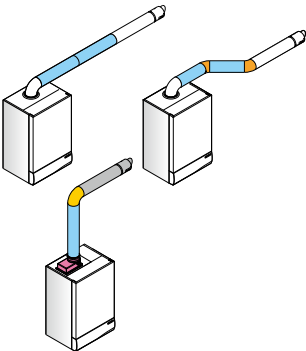
SPECIFICATIONS

	Units	Main 12 HE A	Main 15 HE A	Main 18 HE A	Main 24 HE A	Main 30 HE A
Part Number		720357201	720357301	720357401	720357501	720357601
Controls						
Concealed User Controls		Yes	Yes	Yes	Yes	Yes
LED Operating Status Display		Yes	Yes	Yes	Yes	Yes
Gas						
Natural Gas		Yes	Yes	Yes	Yes	Yes
Inlet Supply Pressure	mbar	20	20	20	20	20
Maximum Gas Rate	m³/hr	1.34	1.64	1.94	2.31	2.95
Central Heating Input (max)	kW	13.34	16.9	20.2	24.5	33.8
Central Heating Output – Condensing (max)	kW	12.81	16.5	19.3	23.8	32.6
Central Heating Output – Non Condensing (max)	kW	11.82	15.2	17.8	22	30.2
Seasonal Efficiency	%	90.5	91.3	90.4	90.9	90.9
SEDBUK Rating	Band	A	A	A	A	A
NOx Class		5	5	5	5	5
NOx Levels	mg/kWhr	31.1	29	11.7	37	48
EcoHomes	Credits	3	3	3	3	2
Electrical						
Electrical Supply	Volts/Hz	230/50	230/50	230/50	230/50	230/50
Permanent Live Required		No	No	No	No	No
Power Consumption	Watts	80	80	80	80	80
External Fuse Rating	Amps	3	3	3	3	3
Boiler IPX Rating (Electrical Protection)		IPX2	IPX2	IPX2	IPX2	IPX2
Integral 'Boiler Only' Frost Thermostat		No	No	No	No	No
Weights						
Maximum Installation Lift Weight	kg	26	26	26	26	26
Mechanical & Hydraulic						
Gas Supply Connection	mm	22	22	22	22	22
Central Heating Connections	mm	22	22	22	22	22
Condensate Drain Connection	mm	21.5	21.5	21.5	21.5	21.5
Upward piping route		Yes	Yes	Yes	Yes	Yes
Compartment Ventilation		No	No	No	No	No
Flue Systems						
Concentric Flue Diameter	mm	70/110				
Max. Equivalent Vertical Length (70/110)	m	4	4	4	4	4
Max. Equivalent Horizontal Length (70/110)	m	4	4	4	4	4
Twin Flue System						
Twin Pipe Flue Diameter	mm	80/80	80/80	80/80	80/80	80/80
Max. Equivalent Vertical Length	m	75	75	75	75	75
Max. Equivalent Horizontal Length	m	75	75	75	75	75
Plume Displacement Kit						
Max. Equivalent Vertical Length	m	29	29	29	29	22

Flue options

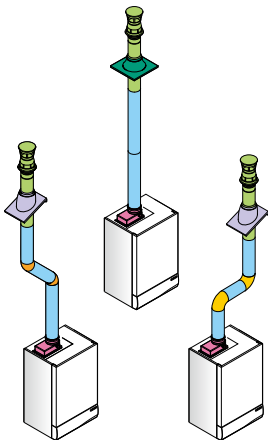
	Any additional 'in line' bends in the flue system must be taken into consideration. Their equivalent lengths are:		
Concentric Flue The maximum equivalent lengths are 4m (horizontal and vertical). These lengths exclude the standard elbow and flue/terminal assembly (horizontal) and terminal assembly (vertical).	Concentric Pipes:	135° bend	0.5m
		90° bend	1.0m
Twin Flue The total maximum equivalent flue length is 75m. Note: Air and flue tubes parallel.	Twin Flue Pipe:	135° bend (air duct)	1.3m
		135° bend (flue duct)	2.6m
		90° bend (air duct)	4.8m
		90° bend (flue duct)	9.6m
	Detailed examples of equivalent flue length calculations are given in the Installation Guidance Notes for each flue system type (Documents 243501 and 243502 for concentric and twin pipe respectively).		

MULTIFIT – FLUE OPTIONS



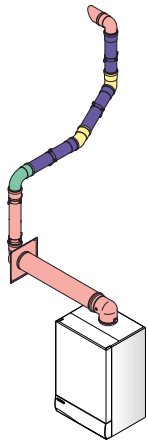
Horizontal Concentric Flues
- 70/110mm

Item Description (MULTIFIT) Flue System B	Specification	Key & OD Dimensions	Multifit Sales Code
Standard Horizontal Flue inc Elbow	850mm	110mm	236921
Horizontal Flue/Wall Terminal	850mm	110mm	243013BAX
Flue Extension	1000mm	110mm	241695
Flue Extension	500mm	110mm	241694
Flue Extension	250mm	110mm	241692
Flue Bend	90 degree	110mm	241687
Flue Bend (Pair)	135 degree	110mm	241689
Flue Terminal Deflector		70mm	248167
Vertical Flue Adaptor (Boiler)		110mm	5106888
Pipe Support		110mm	243014BAX



Vertical Concentric Flues
- 70/110mm

Item Description (MULTIFIT) Flue System B	Specification	Key & OD Dimensions	Multifit Sales Code
Vertical Roof Terminal		70/110mm	242802
Vertical Flue Adaptor (Boiler)		110mm	5106888
Flue Extension	1000mm	110mm	241695
Flue Extension	500mm	110mm	241694
Flue Extension	250mm	110mm	241692
Flue Bend	90 degree	110mm	241687
Flue Bend (Pair)	135 degree	110mm	241689
Roof Cover Plate			243131
Pipe Support		110mm	243014BAX
Flat Roof Flashing		125mm	243016BAX
Pitched Roof Flashing	25/50 degree	125mm	243015



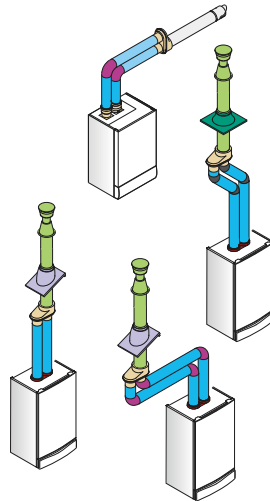
Plume Displacement Kits
- 70/100mm to 70mm PDK

Item Description (MULTIFIT) Flue System L	Specification	Key & OD Dimensions	Multifit Sales Code
Plume Displacement Kit inc Elbow & clips	All HE Plus	110mm	5121371
Plume Displacement Kit Extension inc clip	1000mm	70mm	5121372
Plume Displacement Kit Bend	93 degree	70mm	5121373
Plume Displacement Kit Bend (Pair)	135 degree	70mm	5121374



Twin Pipe Flues
- 80/80mm

Item Description (MULTIFIT) Flue System P	Specification	Key & OD Dimensions	Multifit Sales Code
Horizontal Flue Terminal	850mm	110mm	243013BAX
Vertical Roof Terminal		70/110mm	242802
Twin Pipe Flue Extension	1000mm	80mm	246137
Twin Pipe Flue Extension	500mm	80mm	246136
Twin Pipe Flue Extension	250mm	80mm	246135
Twin Pipe Flue Bend (2 Pair)	135 degree	80mm	5121561
Twin Pipe Flue Bend (Pair)	90 degree	80mm	5121560
Twin Pipe Support (Pair)	Painted White	80mm	5111081
Pipe Support	Painted White	110mm	243014BAX
Pitched Roof Flashing	25/50 degree	125mm	243015
Flat Roof Flashing		125mm	243016BAX
Twin Pipe Flue Adaptor Set		80/80mm	242757
Flue Terminal Deflector			248167
Roof Cover Plate			243131



Please refer to page 36 for flue positioning guide.

THE MAIN COMBI HE



Easy installation

The Main Combi HE packs a range of features into one compact case, but its simple design and wide range of flue accessories makes installation easy.



Low maintenance

Like all our boilers, the Main Combi HE has a simple design and high quality parts such as a Grundfos pump, so you can be sure it's up to the job. It also has three LED status indicators for simple diagnostics and an easy-to-use operating mode selector switch with reset – all keeping maintenance simple and call backs to a minimum.

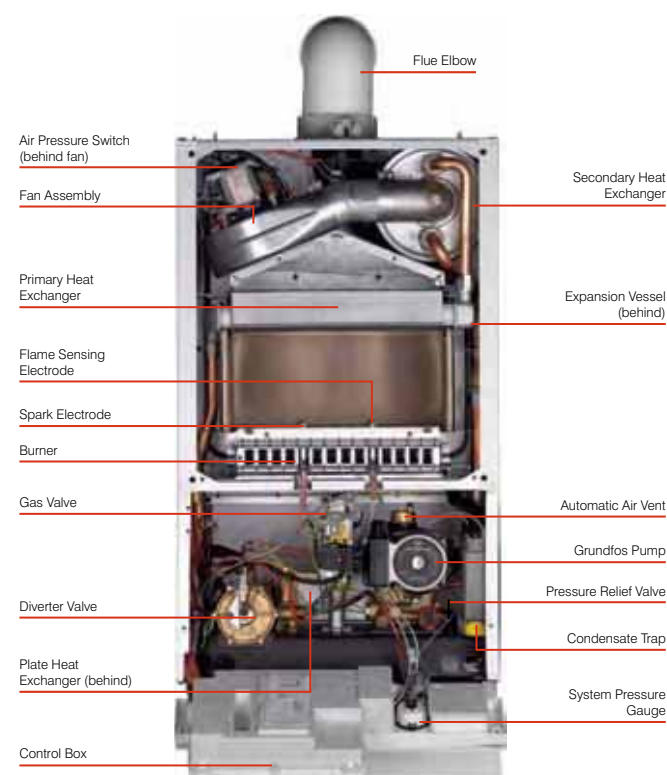


Easy to use

This boiler is simple to use but still offers great control. It has independent hot water and heating controls to increase user comfort and increase efficiency, while its integral timer and LED status indicators make it straightforward to operate and maintain.

PERFECT FOR:

- **Replacing existing combi boilers**
- **Upgrading traditional systems to remove large storage tanks**
- **Instant hot water 24/7**
- **Off mains gas customers (with LPG supply)**

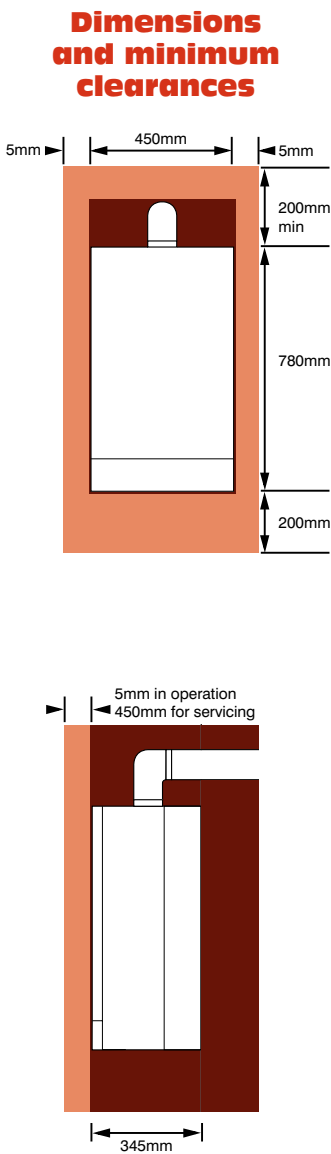


SPECIFICATIONS

Model	Units	Main Combi 24 HE	Main Combi 30 HE
Boiler only code		5115752	5115753
Controls			
User adjustable CH & DHW temperature		Yes	Yes
LED operating/fault status display		Yes	Yes
Integral 24 hr electro-mechanical timer		Optional	Optional
Integral 7 day electronic timer		Optional	Optional
Wireless programmable room thermostat		Optional	Optional
Operating mode selector switch		Yes	Yes
Gas			
Natural gas		Yes	Yes
Optional LPG conversion kit		Yes	Yes
Inlet supply pressure (Natural gas)	mbar	20	20
Inlet supply pressure (Propane)	mbar	37	37
Gas rate	m³/hr	2.62	3.22
Heat input (maximum)	kW	24.8	30.5
Heat input (minimum)	kW	10.6	11.9
Heat output – condensing (maximum)	kW	25.2	30.5
Heat output – condensing (minimum)	kW	10.1	11.9
Heat output – non-condensing (maximum)	kW	24	29.6
Heat output – non-condensing (minimum)	kW	9.8	11
Domestic hot water flow rate (maximum) @ 35°C rise	litres/min	9.8	12.1
Domestic hot water flow rate (minimum)	litres/min	2.5	2.5
Seasonal efficiency band	SEDBUK	B	B
NO _x	Class	3	3
Electrical			
Electrical supply	Volts/Hz	230/50	230/50
Power consumption	Watts	170	180
External fuse rating	Amps	3	3
Ingress protection rating (as supplied)		IPX4D	IPX5D
Pump overrun		No	Yes
24hr pump exercise		No	Yes
Integral frost thermostat (Boiler protection only)		No	Yes
Weight			
Installation lift weight	kg	43.5	44
Mechanical & Hydraulic			
DHW system pressure (maximum)	bar	8	8
DHW operating pressure (minimum)	bar	0.2	0.2
Safety pressure discharge	bar	3	3
Integral automatic bypass		Yes	Yes
CH system capacity (maximum)	litres	125	125
Gas supply pipe size	mm	22	22
Flow & return pipe size (CH)	mm	22	22
Condensate drain connection	mm	25.4 (1" BSP)	25.4 (1" BSP)
Temporary filling loop		Optional	Optional
Compartment ventilation required		No	No
Pre-plumbing jig		Standard	Standard
Flue Systems			
Standard concentric flue diameter	mm	60/100	60/100
Maximum equivalent length horizontal	m	4	3

Flue options

Maximum permissible equivalent flue lengths are:		
	Main Combi 24 HE	Main Combi 30 HE
Concentric Horizontal (60/100)	4m	3m
Concentric Vertical (60/100)	4m	3m
Any additional "in line" bends in the flue system must be taken into consideration. Their equivalent lengths are:		
Concentric Pipes	45° bend	0.5m
	93° bend	1.0m
The elbow supplied with the standard horizontal flue is not included in any equivalent length calculations. There is also a Plume Displacement Kit Flue System available.		



MULTIFIT – FLUE OPTIONS

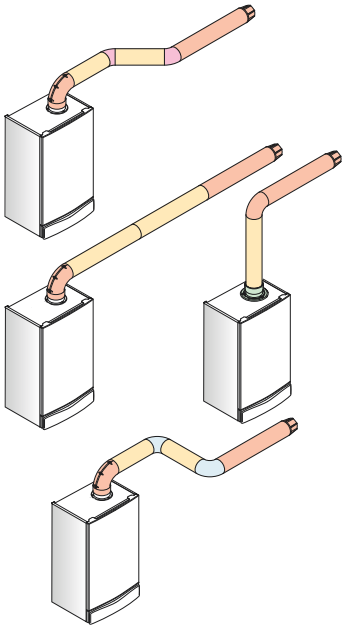
Horizontal Concentric Flues – 60/100mm



Flue system A – Maximum permissible equivalent flue length = 10m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

Item Description (MULTIFIT) Flue System A	Specification	Key & OD Dimensions	Multifit Sales Code
Standard Horizontal Flue inc Elbow	685mm	60/100	5118489
Flue Extension	1000mm	100mm	5111074
Flue Bend	93 degree	100mm	5111075
Flue Bend (Pair)	135 degree	100mm	5111085
Flue Bend	135 degree	100mm	5111076
Pipe Support	Painted White	100mm	5111080
Flue Through Wall Liner		100mm	5111067
Flue Terminal Deflector		60mm	5111068
Flue Vertical Adaptor (Boiler)	Main HE only	100mm	5111065

The 3° fall back on concentric flues can be reduced to 1.5° providing the flue system is adequately clamped in accordance with the installation instructions.

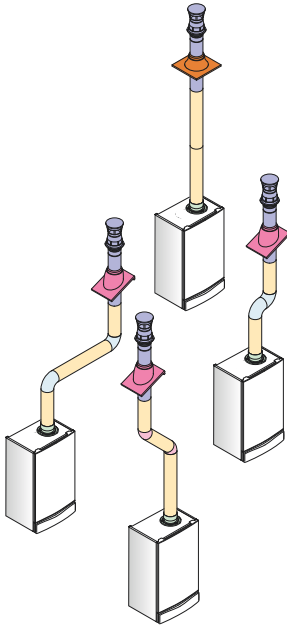


Vertical Concentric Flues – 60/100mm



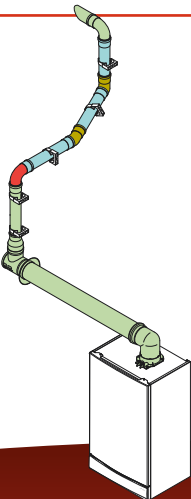
Flue system A – Maximum permissible equivalent flue length = 10m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

Item Description (MULTIFIT) Flue System A	Specification	Key & OD Dimensions	Multifit Sales Code
Vertical Flue Terminal		125mm	5111078
Roof Cover Plate		125mm	246143
Flue Bend	93 degree	100mm	5111075
Flue Bend	135 degree	100mm	5111076
Flue Bend Pair	135 degree	100mm	5111085
Flue Extension	1000mm	100mm	5111074
Pipe Support	Painted White	100mm	5111080
Pitched Roof Flashing	25/50 degree	125mm	5122151
Flat Roof Flashing		125mm	246144
Flue Vertical Adaptor (Boiler)	Main HE only	100mm	5111065



Plume Displacement Kits – 60/100mm

Item Description (MULTIFIT) Flue System K	Specification	Key & OD Dimensions	Multifit Sales Code
Plume Displacement Kit inc Elbow + clips		100mm	5118638
Plume Displacement Kit Extension + clips	1000mm	60mm	5121368
Plume Displacement Kit Bend	93 degree	60mm	5121369
Plume Displacement Kit Bend (Pair)	135 degree	60mm	5121370



Please refer to page 36 for flue positioning guide.



THE MAIN SYSTEM HE

PERFECT FOR:

- **Replacing old system boilers**
- **Siting in small spaces**
- **Off mains gas customers (with LPG supply)**



Easy installation

This lightweight, compact boiler is easy to lift and simple to site. It has a wide range of flue bends and extensions, and, with an optional LPG conversion kit, it's ideal for off-mains gas areas. Although it's simple, the Main System HE is also clever. It includes an automatic adjustment of output to the system requirements, so you know it's performing correctly for your customers' needs – helping to save time on installation.



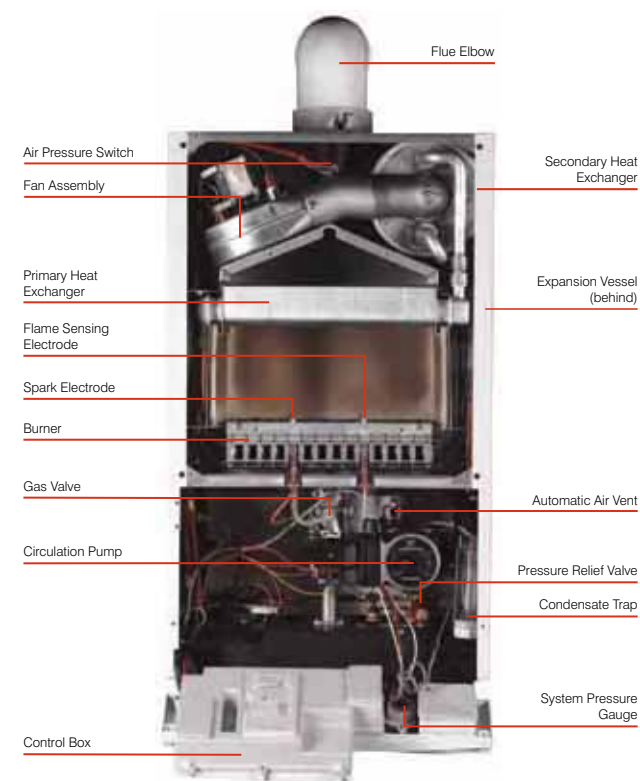
Easy to use

Because we keep things simple, our boilers are easy for your customer to use – reducing the chance of costly complications and call backs. The simple controls also include three LED light status indicators for simple diagnostic functions, making it easy for you to maintain or repair.



Low maintenance

Like all our boilers, the System HE has a simple design, solid construction and high quality parts so you can be sure it's up to the job – meaning maintenance is simple and call backs are kept to a minimum. It's just one of the features of our products that helps to save installers time and money.

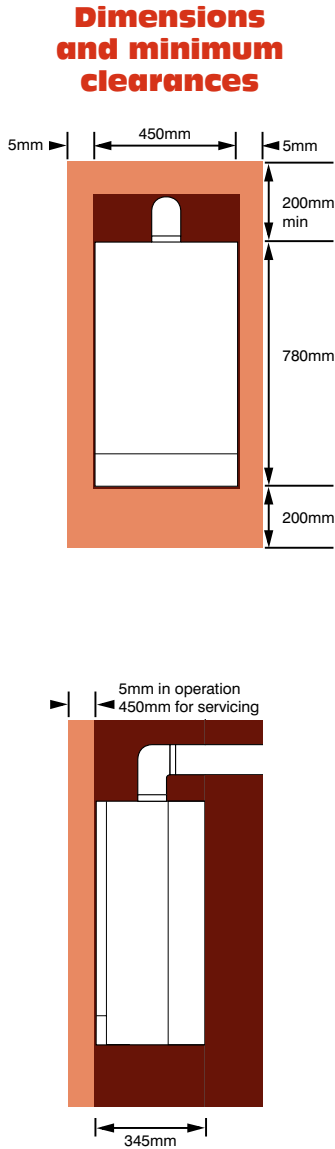


SPECIFICATIONS

Model	Units	Main System 18 HE	Main System 24 HE	Main System 28 HE
Boiler only code		5120040	5120988	5119353
Controls				
Adjustable CH temperature		Yes	Yes	Yes
Operating mode selector switch		Yes	Yes	Yes
LED operating/fault status display		Yes	Yes	Yes
Gas				
Natural Gas		Yes	Yes	Yes
Optional LPG conversion kit		Yes	Yes	Yes
Inlet supply pressure (Natural Gas)	mbar	20	20	20
Inlet supply pressure (Propane)	mbar	37	37	37
Gas rate	m³/hr	1.98	2.62	3.06
Heat input (maximum)	kW	18.7	24.8	28.9
Heat input (minimum)	kW	10.6	10.6	11.9
Heat output (maximum) non-condensing	kW	18	24	28
Heat output (minimum) non-condensing	kW	9.9	9.8	11
Heat output (maximum) condensing	kW	18.9	25.2	29.3
Heat output (minimum) condensing	kW	10.2	10.1	11.3
Seasonal efficiency band	SEDBUK	B	B	B
NO _x	Class	3	3	3
Electrical				
Electrical supply	Volts/Hz	230/50	230/50	230/50
Power consumption	Watts	140	170	180
External fuse rating	Amps	3	3	3
Ingress protection rating		IPX5D	IPX5D	IPX5D
Pump overrun		Yes	Yes	Yes
24hr pump exercise		Yes	Yes	Yes
Integral frost thermostat (Boiler protection only)		Yes	Yes	Yes
Weight				
Maximum installation lift weight	kg	38.5	40.5	40.5
Mechanical & Hydraulic				
Safety pressure discharge bar		3	3	3
Integral automatic bypass		Yes	Yes	Yes
CH system capacity (maximum)	litres	125	125	125
Gas supply pipe size	mm	22	22	22
Flow & return pipe size	mm	22	22	22
Condensate drain connection	mm	25.4	25.4	25.4
Temporary filling loop		Optional	Optional	Optional
Compartment ventilation required		No	No	No
Pre-plumbing jig		Standard	Standard	Standard
Flue systems				
Standard concentric flue diameter	mm	60/100	60/100	60/100
Maximum equivalent length horizontal	m	5	4	3
Plume displacement kit				
PDK Maximum equivalent length vertical	m	3.5	2.5	2.5

Flue options

Maximum permissible equivalent flue lengths are:			
	Main System 18 HE	Main System 24 HE	Main System 28 HE
Concentric Horizontal (60/100)	5m	5m	3m
Concentric Vertical (60/100)	5m	5m	3m
Any additional "in line" bends in the flue system must be taken into consideration. Their equivalent lengths are:			
Concentric Pipes	45° bend	0.5m	
	93° bend	1.0m	
The elbow supplied with the standard horizontal flue is not included in any equivalent length calculations. There is also a Plume Displacement Kit Flue System available.			



MULTIFIT – FLUE OPTIONS

Horizontal Concentric Flues – 60/100mm

Flue system A – Maximum permissible equivalent flue length = 10m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

Item Description (MULTIFIT) Flue System A	Specification	Key & OD Dimensions	Multifit Sales Code
Standard Horizontal Flue inc Elbow	685mm	60/100	5118489
Flue Extension	1000mm	100mm	5111074
Flue Bend	93 degree	100mm	5111075
Flue Bend (Pair)	135 degree	100mm	5111085
Flue Bend	135 degree	100mm	5111076
Pipe Support	Painted White	100mm	5111080
Flue Through Wall Liner		100mm	5111067
Flue Terminal Deflector		60mm	5111068
Flue Vertical Adaptor (Boiler)	Main HE only	100mm	5111065

The 3° fall back on concentric flues can be reduced to 1.5° providing the flue system is adequately clamped in accordance with the installation instructions.

Vertical Concentric Flues – 60/100mm

Flue system A – Maximum permissible equivalent flue length = 10m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

Item Description (MULTIFIT) Flue System A	Specification	Key & OD Dimensions	Multifit Sales Code
Vertical Flue Terminal		125mm	5111078
Roof Cover Plate		125mm	246143
Flue Bend	93 degree	100mm	5111075
Flue Bend	135 degree	100mm	5111076
Flue Bend Pair	135 degree	100mm	5111085
Flue Extension	1000mm	100mm	5111074
Pipe Support	Painted White	100mm	5111080
Pitched Roof Flashing	25/50 degree	125mm	5122151
Flat Roof Flashing		125mm	246144
Flue Vertical Adaptor (Boiler)	Main HE only	100mm	5111065

Plume Displacement Kits – 60/100mm

Item Description (MULTIFIT) Flue System K	Specification	Key & OD Dimensions	Multifit Sales Code
Plume Displacement Kit inc Elbow + clips		100mm	5118638
Plume Displacement Kit Extension + clips	1000mm	60mm	5121368
Plume Displacement Kit Bend	93 degree	60mm	5121369
Plume Displacement Kit Bend (Pair)	135 degree	60mm	5121370

Please refer to page 36 for flue positioning guide.

THE MAIN HE HEAT ONLY

PERFECT FOR:

- **Heat only installations**
- **A wide range of customers - with outputs from 9kW to 24kW**
- **Small spaces**



Easy installation

As well as being light, the Main HE has a wide range of flue accessories. It accommodates both push-fit concentric and twin pipe flue systems, and has both horizontal and vertical flue terminals – all making installation as simple as possible. It is also highly compact (400 x 595 x 260mm) and has minimal installation clearances, so you can fit it in even the smallest spaces.



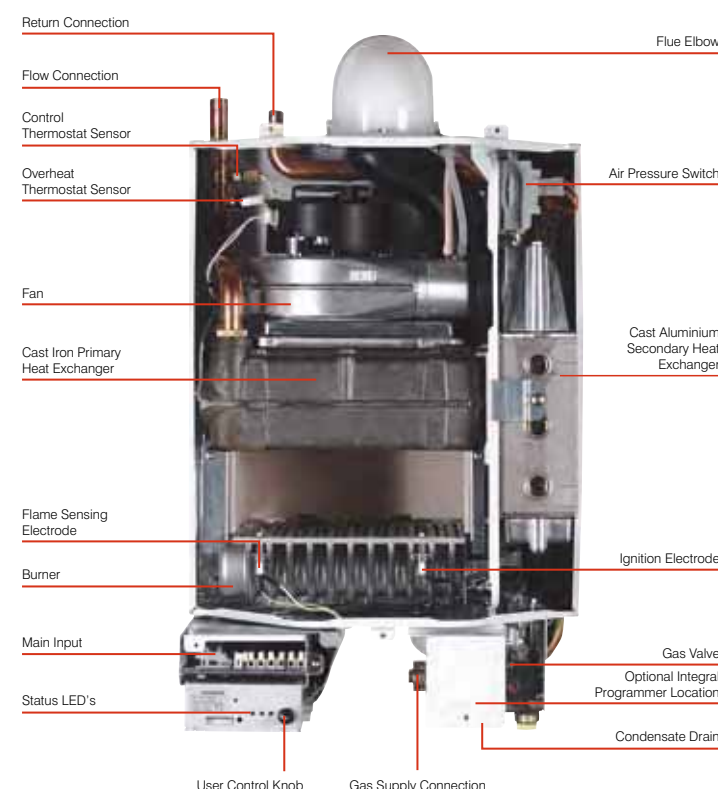
Low maintenance

At Main, we pride ourselves on our boilers' reliability. Like all its components, the Main HE's cast iron and aluminium heat exchangers are built to last. The integral frost protection also gives you and your customer peace of mind in the cold winter months, meaning you can simply install the boiler without worrying about expensive call backs and repairs.



Easy to use

We know that many of your call backs are a result of your customers not understanding the boiler. That's why we make our controls simple and easy to operate. The status LEDs make this a straightforward boiler to use, while the user control knob is reliable and hard wearing.



SPECIFICATIONS

Model	Units	Main 9 HE	Main 12 HE	Main 15 HE	Main 18 HE	Main 24 HE
Boiler only code		5116953	5116954	5116955	5116956	5116958
Controls						
User adjustable CH temperature		Yes	Yes	Yes	Yes	Yes
LED operating/fault status display		Yes	Yes	Yes	Yes	Yes
Integral 24 hour twin channel timer		Optional	Optional	Optional	Optional	Optional
Gas						
Natural gas		Yes	Yes	Yes	Yes	Yes
Inlet supply pressure (natural gas)	mbar	20	20	20	20	20
Gas rate	m³/hr	0.98	1.30	1.63	1.95	2.60
Heat input (gross)	kW	10.2	13.6	17.0	20.4	27.3
Heat output non-condensing	kW	8.8	11.8	14.8	17.7	23.6
Heat output condensing	kW	9.5	12.6	15.7	18.8	24.9
Seasonal efficiency band	SEDBUK	B	B	B	B	B
NO _x	Class	2	2	2	2	2
Electrical						
Electrical supply	Volts/Hz	230/50	230/50	230/50	230/50	230/50
Power consumption	Watts	80	80	80	80	80
External fuse rating	Amps	3	3	3	3	3
Ingress protection rating		IP20	IP20	IP20	IP20	IP20
24hr pump exercise		Yes	Yes	Yes	Yes	Yes
Weight						
Maximum installation lift weight	kg	39	39	39	42.8	42.8
Mechanical & Hydraulic						
Gas supply pipe size	mm	15	15	15	15	15
Flow & return pipe size	mm	22	22	22	22	22
Condensate drain connection	mm	21.5	21.5	21.5	21.5	21.5
Plastic pipe compatible		Yes	Yes	Yes	Yes	Yes
Flue Systems						
Standard concentric flue diameter	mm	60/100	60/100	60/100	60/100	60/100
Maximum equivalent length horizontal	m	3.5	3.5	3.5	3.5	3.5

Flue options

Maximum permissible equivalent flue lengths are:					
	Main 9 HE	Main 12 HE	Main 15 HE	Main 18 HE	Main 24 HE
Concentric Horizontal *(60/100)	3.5m	3.5m	3.5m	3.5m	3.5m
Concentric Vertical *(60/100)	3.2m	3.2m	3.2m	3.2m	3.2m
Twin Pipe Vertical	6m	6m	6m	6m	6m
Any additional "in line" bends in the flue system must be taken into consideration. Their equivalent lengths are:					
Concentric Pipes	135° bend	0.5m			
	93° bend	1.0m			
Twin Flue Pipe	135° bend	0.25m			
	90° bend	0.5m			
The elbow supplied with the standard horizontal flue is not included in any equivalent length calculations. The Main HE requires a Vertical Boiler Flue Adaptor on all Group A Vertical applications. There is also a Plume Displacement Kit Flue System available. *Includes terminal.					

MULTIFIT – FLUE OPTIONS

FLUE SYSTEM A

Horizontal Concentric Flues
- 60/100mm

Flue system A – Maximum permissible equivalent flue length = 10m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

Item Description (MULTIFIT) Flue System A	Specification	Key & OD Dimensions	Multifit Sales Code
Standard Horizontal Flue inc Elbow	685mm	60/100	5118489
Flue Extension	1000mm	100mm	5111074
Flue Bend	93 degree	100mm	5111075
Flue Bend (Pair)	135 degree	100mm	5111085
Flue Bend	135 degree	100mm	5111076
Pipe Support	Painted White	100mm	5111080
Flue Through Wall Liner		100mm	5111067
Flue Terminal Deflector		60mm	5111068
Flue Vertical Adaptor (Boiler)	Main HE only	100mm	5111065

The 3° fall back on concentric flues can be reduced to 1.5° providing the flue system is adequately clamped in accordance with the installation instructions.

FLUE SYSTEM A

Vertical Concentric Flues
- 60/100mm

Flue system A – Maximum permissible equivalent flue length = 10m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

Item Description (MULTIFIT) Flue System A	Specification	Key & OD Dimensions	Multifit Sales Code
Vertical Flue Terminal		125mm	5111078
Roof Cover Plate		125mm	246143
Flue Bend	93 degree	100mm	5111075
Flue Bend	135 degree	100mm	5111076
Flue Bend Pair	135 degree	100mm	5111085
Flue Extension	1000mm	100mm	5111074
Pipe Support	Painted White	100mm	5111080
Pitched Roof Flashing	25/50 degree	125mm	5122151
Flat Roof Flashing		125mm	246144
Flue Vertical Adaptor (Boiler)	Main HE only	100mm	5111065

FLUE SYSTEM K

Plume Displacement Kits
- 60/100mm

Item Description (MULTIFIT) Flue System K	Specification	Key & OD Dimensions	Multifit Sales Code
Plume Displacement Kit inc Elbow + clips		100mm	5118638
Plume Displacement Kit Extension + clips	1000mm	60mm	5121368
Plume Displacement Kit Bend	93 degree	60mm	5121369
Plume Displacement Kit Bend (Pair)	135 degree	60mm	5121370

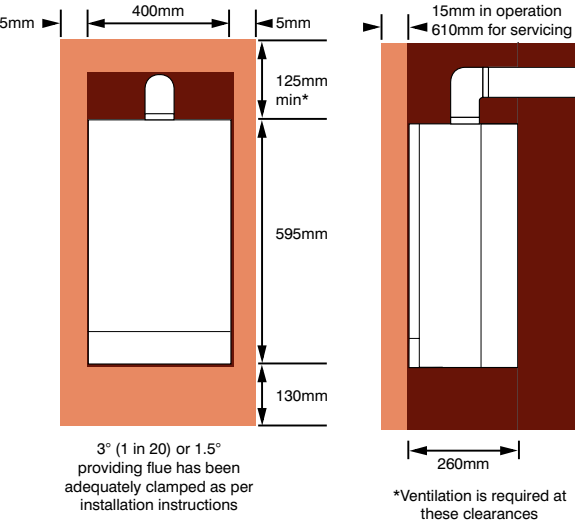
FLUE SYSTEM N

Twin Pipe Flues
- 80/80mm

Maximum permissible equivalent flue length = 20m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.25m, 90° bend – 0.5m.

Item Description (MULTIFIT) Flue System N	Specification	Key & OD Dimensions	Multifit Sales Code
Twin Pipe Flue Adaptor (Boiler)		80/80mm	720089801
Twin to Concentric Adaptor 80/80 – 80/125		80/125mm	5111084
Twin Pipe Flue Bend (Pair)	90 degree	80mm	5111072
Twin Pipe Flue Bend (2 Pair)	135 degree	80mm	5111086
Twin Pipe Extension Pair inc Brackets	1000mm	80mm	5111087
Twin Pipe Support (Pair)		80mm	5111081
Vertical Flue Terminal		125mm	5111078
Roof Cover Plate		100mm	246143
Pitched Roof Flashing		125mm	5122151
Flat Roof Flashing	25/50 degree	125mm	246144

Dimensions and minimum clearances



Please refer to page 36 for flue positioning guide.



THE MAIN UNVENTED CYLINDER



Easy installation

All of the controls and connections have been positioned in the front quadrant of the cylinder, making it easier for you to install.

Compatible with Main system and heat only boilers, this cylinder is available as indirect 120, 150, 170, 210, 250 and 300 litre models, meaning there is always the right product for the job. And, because our boilers and unvented cylinders are designed to work together, you know you'll have no compatibility issues.



Energy efficient

The coil-in-coil heat exchanger ensures rapid heat recovery while promoting energy efficiency. There's also 50mm of polyurethane foam between the cylinder and the casing to increase insulation and save energy.



Low maintenance

The high-grade stainless steel inner cylinder gives this product a long life and ensures low maintenance. The incoloy 800 alloy-sheathed elements are designed to resist corrosion, a common problem with other unvented cylinders.

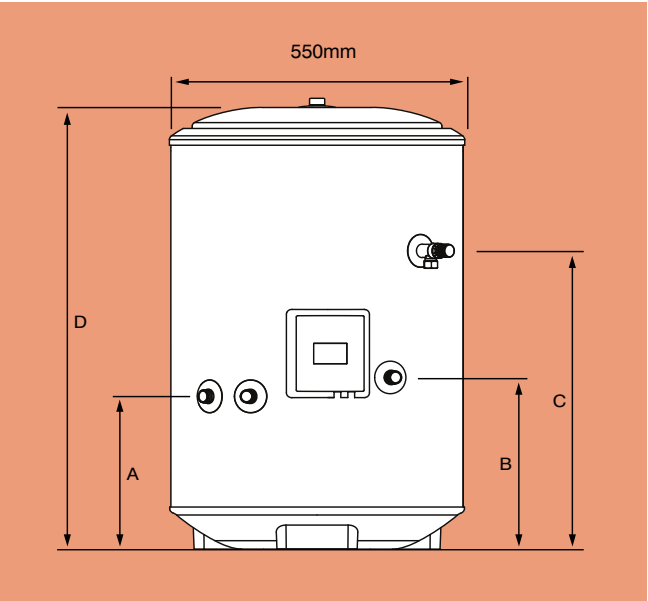
Our indirect heating coil is factory fitted with an electric immersion heater as a back up – leaving you and your customers confident they won't have to go without hot water when they need it.

And, because we're so confident in the quality of our unvented cylinders, we offer a 1-year on-site support service including parts and labour and will then guarantee the stainless steel vessel for a further 25 years.

PERFECT FOR:

- **Replacing existing system boilers**
- **Low mains pressure areas**
- **Homes with more than one bathroom**
- **Use with Main System Eco, Main System HE and Main HE ranges**

Dimensions



Nominal capacity (Litres)	Dimensions (mm)			
	A	B	C	D
120	315	364	615	906
150	315	364	800	1090
170	315	364	925	1216
210	315	364	1184	1474
250	315	364	1378	1731
300	315	364	1693	2045

JOB DONE

25-YEAR WARRANTY

**120/150/170/210/250/300
LITRE CAPACITIES**

SPECIFICATIONS

Specifications

Element – Long-life removable Incoloy 800 sheathed element, rated 3.0kW @ 240V.

Outer Casing – A combination of resilient thermoplastic mouldings and plastic coated corrosion proofed steel sheet.

Thermal Insulation – CFC/HCFC free (ODP ZERO) fire retardant expanded polyurethane. 50mm thickness.

Inner Container – High Grade stainless steel, pressure tested to 15 bar.

Primary Coil – 22mm diameter stainless steel. Coil-in-coil design for improved performance.

Thermostat – Element thermostat adjustable from 10°C to 70°C.

Safety Features – Temperature and pressure relief valve, factory set to operate at 10 bar and 90°C. High limit thermostat, factory set at 80°C.

Anode – None required.

Approvals – KIWA approved for water regulations and Building Regulation G3. Manufactured in the UK in a BS EN ISO 9001:2000 registered factory. CE marked for compliance with LVD, EMC & pressure equipment directives.

Installation

Unvented units over 15 litre capacity must be installed by a competent installer in accordance with Local Regulations:

England & Wales – Building Regulation G3.

Scotland – Technical Standards P3.

N. Ireland – Building Regulation P5.

Fixing – Feet on bottom moulding for floor mounting.

Plumbing Connections – Inlet/Outlet, 22mm compression fittings / 3/4" BSP parallel thread.

Indirect Coil – 22mm compression fittings / 3/4" BSP parallel thread.

Temperature and Pressure Relief Valve – 15mm compression outlet.

Cold Water Control – Integrated cold water control set comprising pressure reducing valve and strainer – factory set at 3.5 bar, expansion relief valve – factory set at 6 bar and check valve. 22mm compression fittings.

Mains pressure – Min 1.0 bar, Max 16 bar. A 2-port Danfoss motorised valve is supplied.

Flow Rates – Up to 55 litres per minute @ 6 bar pressure.

Operating Pressure – 3.5 bar.

Expansion Relief Valve Pressure – 6.0 bar.

Operating Temperature – Recommended 60°C. Adjustable 10 - 70°C.

Water Expansion – Remote expansion vessel – 12 litre vessel supplied with 120 and 150 litre models. 18 litre vessel supplied with 170 and 210 litre models. 25 litre vessel supplied with 250 and 300 litre models.

Minimum Water Supply Requirements – Recommended minimum supply pressure – 1.5 bar/20 l/min flow rate.

If there are any doubts about water supply pressure or flow rates, please contact our Specification Advice Team to discuss.

Secondary Circulation – Via 22 x 22 x 15mm swept tee, which should be fitted to the inlet pipework.

Pressure Testing – Units are tested to 15 bar.

Compatible Boilers – Electric, gas or oil fired – open vent or sealed system type, fitted with integral control thermostat and cut-out.

Tundish – 15mm compression inlet and 22mm compression outlet.

Electrical

Indirect models – Controls should be wired to the boiler, programmer etc., in accordance with the control scheme being used.

All electrical wiring must conform to the latest IEE Wiring Regulations.

Guarantee*

On site service support including parts and labour for 12 months from date of installation. After an initial 12 months, a parts only guarantee will apply for a further 25 years on the stainless steel inner vessel.

The guarantees are valid provided that:

- It has been correctly installed as per the instruction contained in the instruction manual and all relevant Codes of Practice and Regulations in force at the time of installation.
- Within 60 days of installation the user completes and returns the warranty certificate supplied along with the proof of purchase to register the product.
- The Benchmark Checklist has been completed upon commissioning and the Benchmark Service Record is completed for each service.
- It has not been modified in any way, other than by Main.
- The fault is not scale related.
- It has not been frost damaged.
- The fault is not caused by high chloride levels in the water supply or incorrect disinfection methods.
- It has only been used for the storage of potable water.
- It has not been tampered with or been subjected to misuse or neglect.
- It has been installed in the United Kingdom.

Evidence of purchase and date of supply may be required.

The guarantee is transferable. This guarantee does not affect your statutory rights.

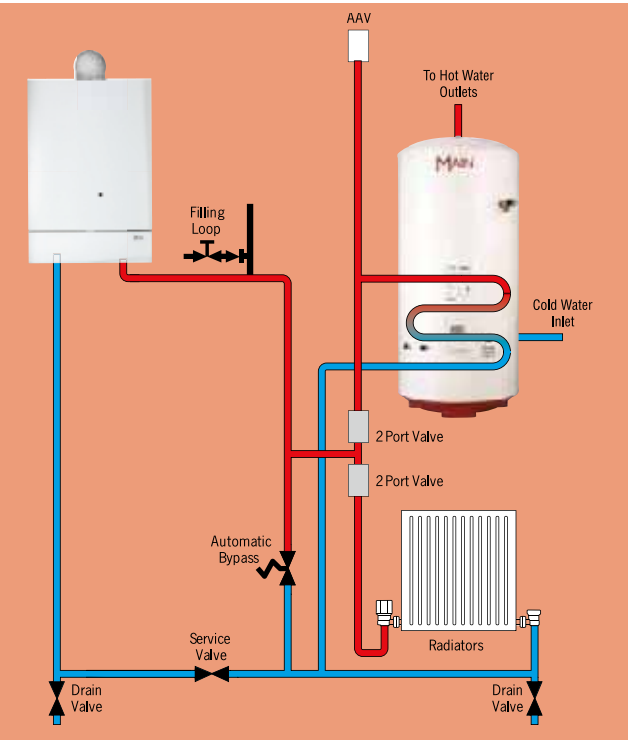
Product	Code
Main 120L	5133561
Main 150L	5133562
Main 170L	5133563
Main 210L	5133564
Main 250L	5135327
Main 300L	5135328
Accessories	
Swept Tee	5133565

* Subject to registration

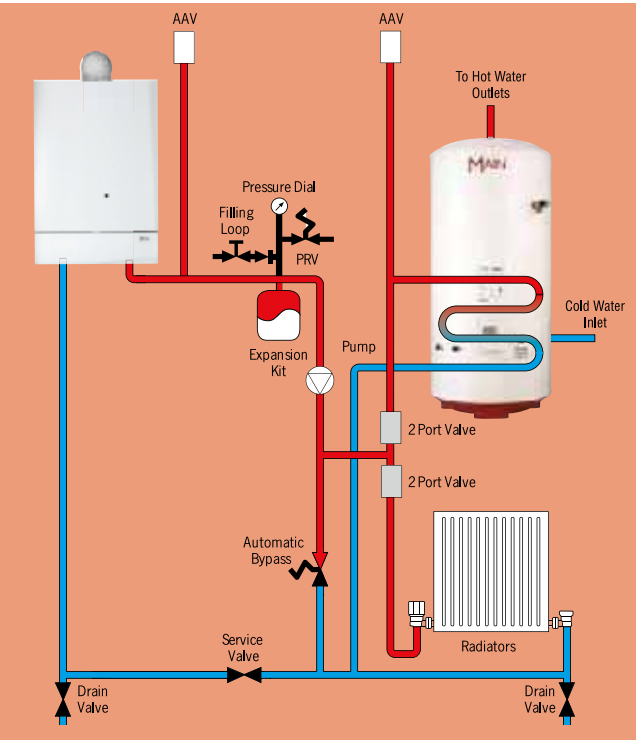
System Diagrams

These diagrams are for demonstration purposes only and must not be used as installation guides.

System Boiler and Cylinder



Heat only Boiler and Cylinder



Model (Litres)	Primary Flow (litres/min@ 80°C + /-2C)	Heat up time from cold through 45°C (mins)	Recovery time for 70°C draw-off	Hot water draw-off	Capacity available as hot water (%)	Coil Output (kW)
Using Primary Heating Coil						
120	15	23	23	107	89	11.9
150	15	31	24	141	94	15.6
170	15	29	25	153	90	15
210	15	33	29	198	94	14
250	15	40	30	238	95	18
300	15	49	35	285	96	19
Using Element Only						
120	N/A	110	N/A	N/A	N/A	N/A
150	N/A	142	N/A	N/A	N/A	N/A
170	N/A	163	N/A	N/A	N/A	N/A
210	N/A	205	N/A	N/A	N/A	N/A
250	N/A	252	N/A	N/A	N/A	N/A
300	N/A	304	N/A	N/A	N/A	N/A

Unvented Cylinder Specification Enquiries

Telephone: 0845 026 4620.

THE MAIN WATER HEATER

PERFECT FOR:

- **Businesses and small households with high hot water demand**
- **Energy efficiency - it only heats the water you need**
- **Creating space - no need for a storage cylinder**

Quality you can trust

Main has an unrivalled reputation for offering reliable, safe, efficient and easy-to-use water heaters. Ideal in homes with high hot water demand, the Main FF (Fan Flue) and Main BF (Balanced Flue) Water Heaters provide instantaneous hot water without the need for a storage cylinder.

Easy installation

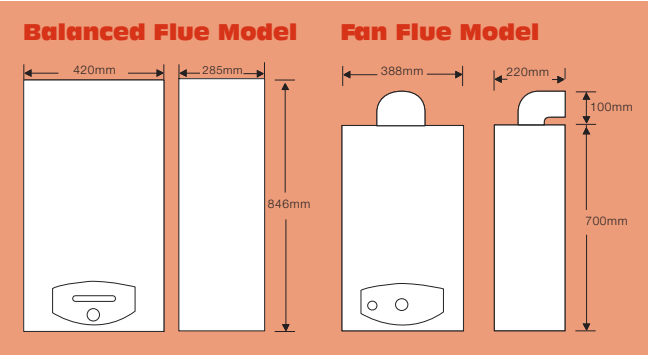
Installation is straightforward, thanks to the simple 3-pipe connections with isolation valves, pre-wired standard plug (FF) and flexible flueing options.

If you need to locate the heater away from an external wall, the FF model is perfect. It has a 4-metre horizontal and vertical flue option making siting easy.

The BF option comes with a Piezo Spark Igniter, meaning no batteries or wiring are needed – and both models have clear temperature controls.

Low maintenance

The key to our success is the simplicity of our products. They do exactly what you need them to do and they do it reliably. That means you waste less time and money dealing with call backs and maintenance issues.



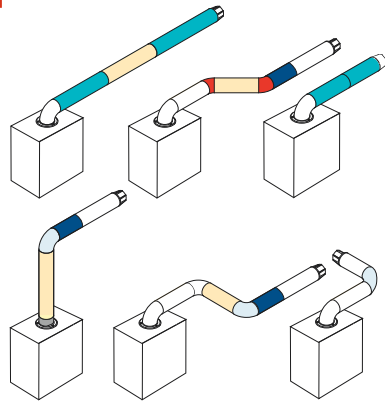
Flue options

Telescopic flue available in four length options to suit wall thickness from 100mm to 610mm:	
	Sales Code
Min. length 100mm (4 in.)	31/10321
Max. length 150mm (6 in.)	
Min. length 150mm (6 in.)	31/10322
Max. length 230mm (9 in.)	
Min. length 230mm (9 in.)	31/10323
Max. length 380mm (15 in.)	
Min. length 380mm (15 in.)	31/10324
Max. length 610mm (24 in.)	
The appliance may be mounted on a suitable existing terminal as above, provided the requirements of the building regulations are maintained.	

SPECIFICATIONS

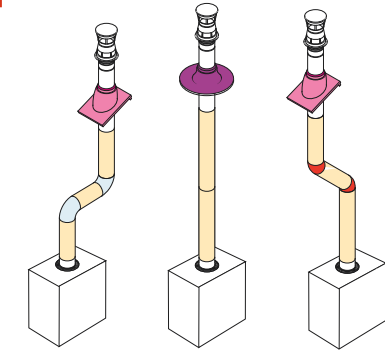
Model	Units	Balanced Flue Model	Fan Flue Model
Model name		Multipoint BF	Multipoint FF
Water heater code		5110173	5110174
Min service clearance above	mm	30mm	120mm (Includes flue elbow)
Min service clearance sides	mm	5mm	10mm
Min service clearance below	mm	75mm	50mm
Max DHW flow rate (Delta T @ 30°C max)	l/min	10.8 l/min	11.7 l/min
Max DHW flow rate (Delta T @ 35°C max)	l/min	9.3 l/min	10 l/min
Max DHW flow rate (Delta T @ 50°C max)	l/min	6.5 l/min	7 l/min
Min operating DHW pressure required	bar	0.2 bar	0.3 bar
Max DHW system pressure	bar	12 bar	12 bar
Minimum flow rate required	l/min	2.5 l/min	2.5 l/min
IP rating		N/A	IPX4D
Gas			
Natural gas		Yes	Yes
Heat input (net)	kW	25.5	27
Heat output to water	kW	23	23.8
Electrical			
Electrical connection	V	None	230 fused UK plug
Mechanical & Hydraulic			
Gas connection pipe size	mm	15	15
Water connection pipe size	mm	15	15
Flue Systems			
Maximum equivalent length horizontal	mm	610	4000
Maximum equivalent length vertical	mm	N/A	4000
Weight			
Installer lift weight	kg	20	20

Concentric Horizontal Flues - Water Heaters



Concentric Horizontal Flue Arrangement	Key & OD Dimension	Multifit Sales Code
Standard Horizontal Flue Kit	490mm	430183
Horizontal Flue Kit (long)	680mm	430184
Flue Extension	1000mm	B4286
90 Bend Kit		31/19034
135 Bend Kit		31/19035
Telescopic Flue Elbow Adaptor		430174
Vertical Adaptor		238014

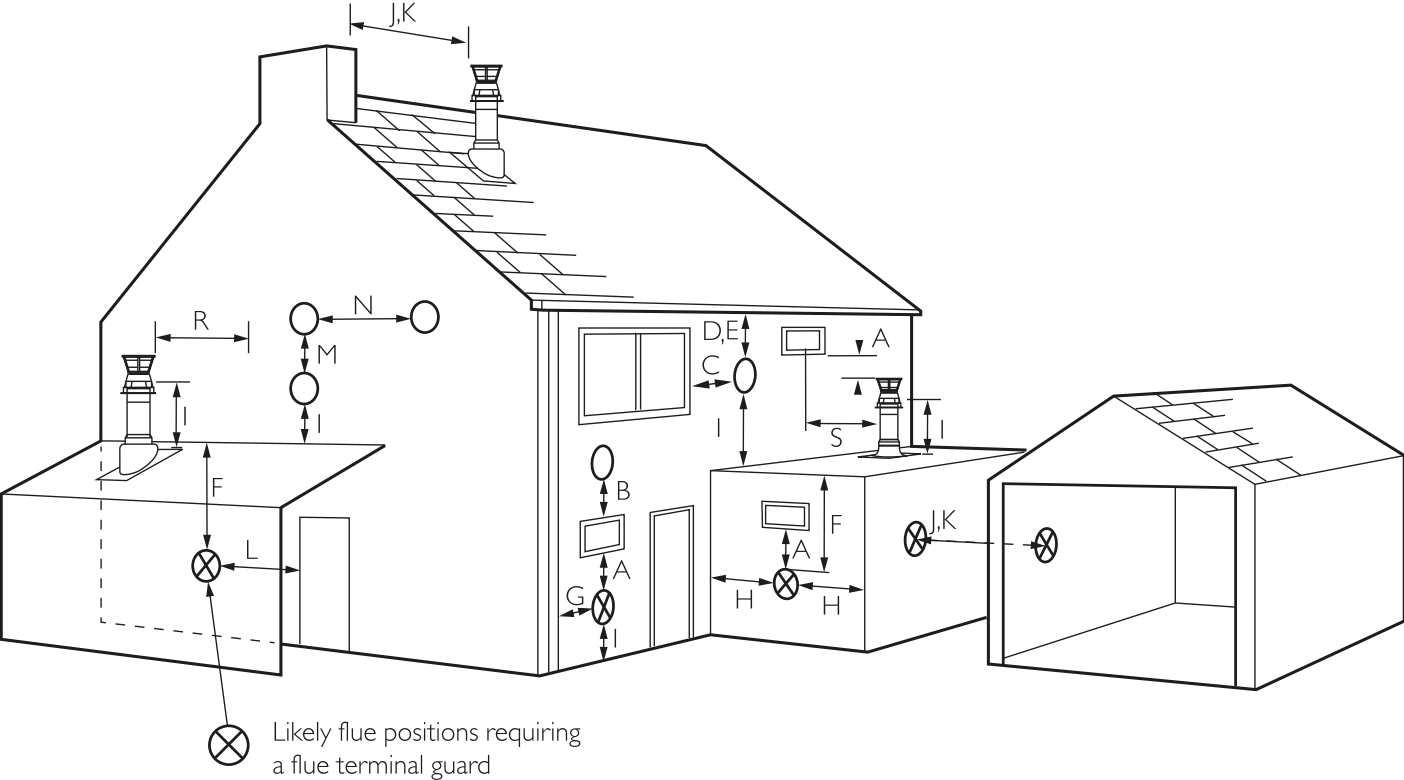
Concentric Vertical Flues - Water Heaters



Concentric Vertical Flue Arrangement	Key & OD Dimension	Multifit Sales Code
Concentric Vertical Flue Kit		238015
Flue Extension	1000m	B4286
90 Bend Kit		31/19034
135 Bend Kit		31/19035
Flat Roof Flashing Kit		31/19040
Pitched Roof Flashing Kit		31/19041

Please refer to page 36 for flue positioning guide.

FLUE POSITIONING GUIDE

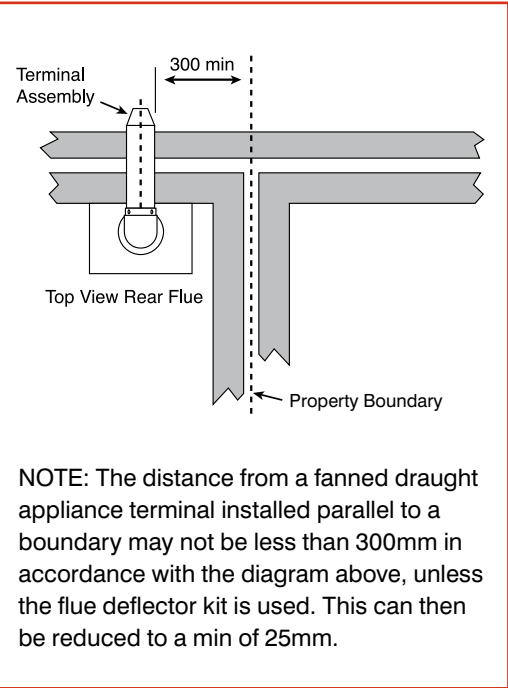


Terminal Position with Minimum Distance (mm)






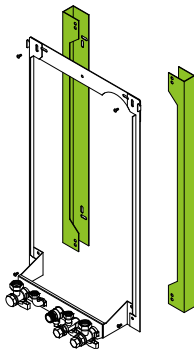
A*	Directly below an opening, air brick, opening window etc.	300
B*	Above an opening, air brick, opening window etc.	300
C*	Horizontally to an opening, air brick, opening window etc.	300
D	Below gutters, soil pipes or drain pipes.	150
E	Below eaves.	200
F	Below balconies or carport roof.	200
G	From a vertical drain pipe or soil pipe.	150
H	From an internal (i) or external (ii) corner.	300
I	Above ground, roof or balcony level.	300
J	From a surface or boundary line facing a terminal.	600
K	From a terminal facing a terminal (horizontal flue).	1200
	From a terminal facing a terminal (vertical flue).	600
L	From an opening in carport (e.g. door, window) into the dwelling.	1200
M	Vertically from a terminal on the same wall.	1500
N	Horizontally from a terminal on the same wall.	300
R	From adjacent wall to flue (vertical only).	300
S	From an adjacent opening window (vertical only).	1000

*In addition, the terminal should be no nearer than 150mm to an opening in the building fabric formed for the purpose of accommodating a built-in element such as a window frame. See BS 5440 Pt1.

Reduced clearances: This range of boilers has been tested and approved for use with certain clearances less than those shown.
= Horizontal flues in positions D, E, F, G & H(i) may be reduced to 25mm. H(ii) may only be reduced to 115mm.
Only one of these reductions may be used on a single installation.



OPTIONAL ACCESSORIES

	Item Description (MULTIFIT)	Multifit Sales Code
	Integral Electronic Timer An electronic 7 day timer with a digital LCD display, offering selection of multiple on/off switching operations over a 7 day period for maximum versatility. Also features an advanced switch programme.	247207
	Integral Electro Mechanical Time Clock An electro-mechanical 24 hour timer offering selection of constantly on, constantly off or timed operation, with switching possible at 15 minute intervals using tappets set around an analogue clock for the utmost simplicity.	247206
	Wireless (RF) Electro Mechanical Room Thermostat A wireless programmable room thermostat which neatly minimizes problems of compliance with Building Regulations Part L (Energy Conservation) & Part P (Electrical Safety). As simple to fit as it is to use.	5117393
	Wireless Electronic Digital Room Thermostat A 7 day programmable wall mounted room thermostat that incorporates a large blue back lit display and a simple mode selection knob for ease of use.	720030701
	Filling Loop Kit	248221
	Stand Off Bracket (combi and system boilers)	5117035
	Stand Off Bracket (heat only boilers)	5113380

THE MAIN REASSURING BACK-UP

The service division of Baxi Group

heateam

By using **heateam** you can reassure your customers that they are in good hands.

0844 871 1570
www.heateam.co.uk

- **heateam** offers priority technical support to installers registered with the Gas Safe Register (formerly CORGI) via our trade technical advice line.
- **heateam** only supports Baxi Group appliances, so we have developed an expertise in our own heating products.
- **heateam** vans are fully stocked with Main spare parts, so we can repair our appliances on the first visit 95% of the time.
- **heateam** only uses official Main spare parts – quality and safety are always our prime concern.
- **heateam** employs over 280 engineers providing nationwide coverage.
- **heateam's** service centre is open 7 days per week, 363 days per year.
- **heateam** has demonstrated the best performance in the following areas:
 1. The best call handling time for service*
 2. The best service visit response time*
 3. The best call handling time for technical advice*

*These are the results of independently commissioned research that recorded average response times. **heateam** was measured against 6 major manufacturers. Calls may be recorded.



WARRANTY

Main: Giving you extra

As a Main installer you can register your customers' Main Band A boilers (Main Combi Eco, Main System Eco and Main HE A) for a 2-year parts and labour warranty.

You'll need to be Gas Safe Registered – and the rest is simple.

Inside the box of the boiler you'll find a warranty card, remove this and go to **www.mainextra.com** and click on 'register 2-year warranty'. Fill in the form and click 'submit', and it's job done.

You've got 30 days from installation to claim your warranty – so you've plenty of time to benefit from the peace of mind our warranty brings.

For more information you can email **promotions@mainheating.co.uk**

Please remember to include your contact telephone number and registered address and we'll do our best to get back to you within 24 hours.

EXPERT TRAINING

As well as superb support and technical advice, Main gives you access to the very latest training on all our products. The courses are run by qualified instructors and cover everything from installation and commissioning to servicing and diagnostics – as well as current legislation, building regulations, energy efficiency, electronics, combi boilers, system design and condensing theory.

In short, you'll learn everything you need to install every product in the Main range successfully and profitably.

Training is available at any of our dedicated centres across the country:

- Cardiff • Coalville • Dartford • Eastleigh
- Glasgow • Liskeard • Peterlee • Romford
- Stockton-on-Tees • Warrington • Warwick

To book your place on a Main training course call: **0845 600 7402**



Benchmark places responsibilities on both manufacturers and installers. The purpose is to ensure that customers are provided with the correct equipment for their needs, that it is installed, commissioned and serviced in accordance with the manufacturer's instructions by competent persons and that it meets the requirements of the appropriate Building Regulations. The Benchmark Checklist can be used to demonstrate compliance with Building Regulations and should be provided to the customer for future reference. Installers are required to carry out installation, commissioning and servicing work in accordance with the Benchmark Code of Practice which is available from the Heating and Hot water Industry Council who manage and promote the Scheme.

Visit **www.centralheating.co.uk** for more information.

Contacts

All enquiries

Tel: 0844 871 1570

Please note – calls to the service centre may be recorded or monitored.

Main

Brooks House, Coventry Road, Warwick CV34 4LL.

Website: www.mainheating.co.uk

twitter.com/mainheating

facebook.com/mainheating

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M/Range 08/10/V1

MAIN