You can rely on POTTERTON

Combi boiler

Potterton Promax Combi HE Plus

You can rely on Potterton

The ultimate in reliability and service

With Potterton on your side, you can be sure that you're offering your customers the ultimate in reliability, energy efficiency and service. You're on board with a name that – for more than 150 years – has stood for high quality and unrivalled experience in the design and manufacture of boilers. In fact, over the years, more than 5 million Potterton boilers have been built.

Today's Promax HE range uses the latest, proven technology to bring you boilers that are among the most energy-efficient, environmentally friendly and easy to use home heating solutions on the market.

What puts Potterton on top? Our enormous investment in research, design and world class manufacturing – including a £2 million Product Design Centre, the largest in the UK – is only part of the story. Unrivalled service and support also helps to give you complete peace of mind.

On efficiency, on quality, on reliability, on ease of installation, on technical support... you can rely on Potterton.

On the cutting edge of innovation

Potterton's commitment to innovation is second to none. Our state-of-the-art Product Design Centre is fully equipped with more than 45 test stations that are designed to test the reliability of products and components.

There's a wind generator to test how products perform in different wind conditions and three environmental chambers where different temperatures and humidity levels can be tested. Each year, more than 200,000 hours of tests are carried out, pushing our boilers to the limit so that you can have total confidence in our performance and reliability, even in extreme conditions.

Rely on Potterton for energy efficiency

Global warming and climate change is an issue that Potterton is actively working to combat. In line with increasingly tough environmental standards we have developed our Promax HE range of boilers to minimise the impact that using them has on the environment.

A

Why energy efficiency is important

Domestic boilers account for about 60% of all the carbon dioxide (CO_2) produced domestically in the UK. They also produce nitrogen oxides (NO_x), pollutants that cause acid rain and damage the atmosphere's protective ozone. Our Promax Combi HE Plus appliances ensure NO_x and CO_2 emissions are kept to a minimum. So, every little step that can be taken to reduce emissions will help to protect our environment.

ENERGY EFFICIENCY RECOMMENDED

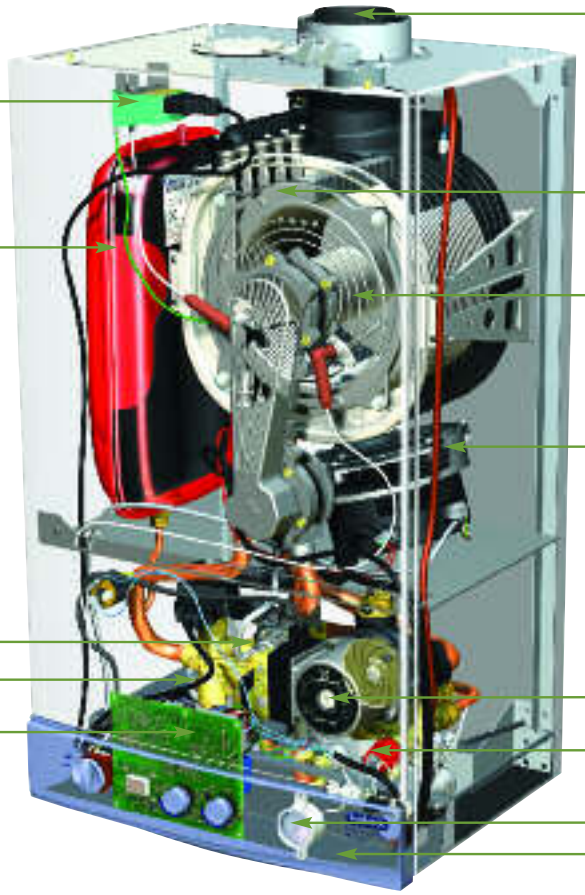
Potterton Promax Combi HE Plus

Greater efficiency means lower bills

Your customers will also benefit from greater energy efficiency through lower fuel bills. Indeed, our Promax HE range produces up to 19% more heat from the same amount of fuel as a conventional boiler would use.

To encourage everyone to use energy efficient heating, the Government has introduced a rating system for boilers. The SEDBUK index (Seasonal Efficiency of a Domestic Boiler in the UK) classifies boilers from 'A' to 'G' with 'A' being the most efficient - at least 90% of the fuel burnt is converted to heat. Since April 2005, all new boiler installations must be 'A' or 'B' rated and the Potterton Promax Combi HE Plus is proud to achieve SEDBUK Band A efficiency. Furthermore, it's easy to install and service as well as being available with a variety of fluing options and accessories.

On Spec for superb performance



Promax Combi HE Plus

High efficiency combi boilers. Two models with fully modulating outputs from 6.8kW to 33kW. This compact, wall-mounted combi boiler is designed to be quick and easy to install in a wide range of homes. Other benefits include Potterton's proven reliability, built-in frost protection, flues that can be fitted almost anywhere, a wireless thermostat sited remotely from the boiler and a pump that automatically runs every 24 hours to keep itself in prime condition.

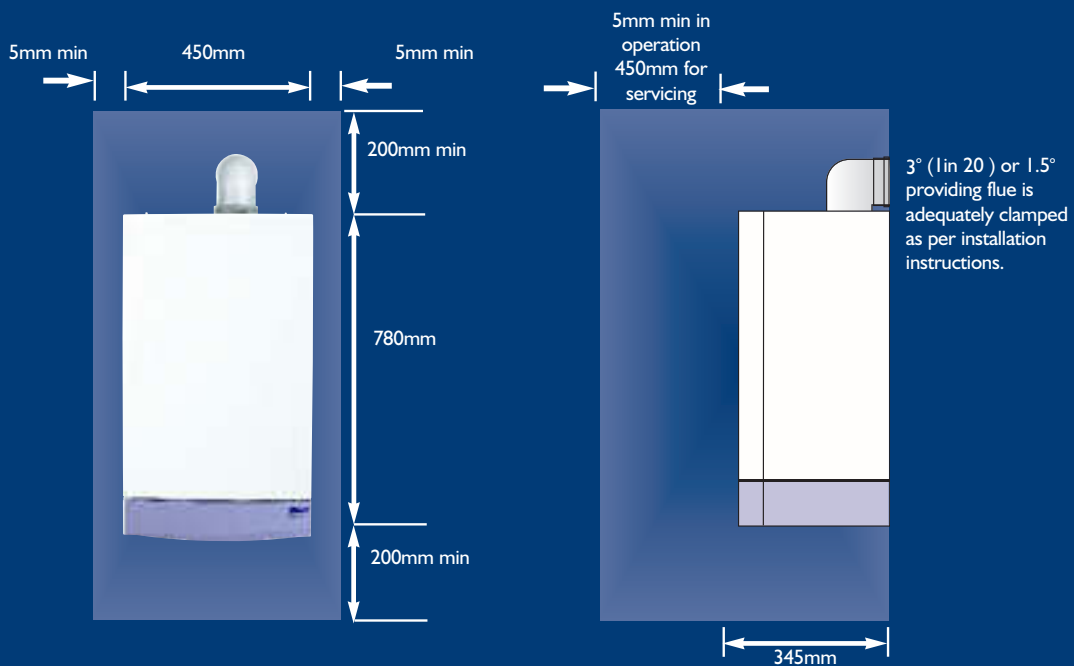
A

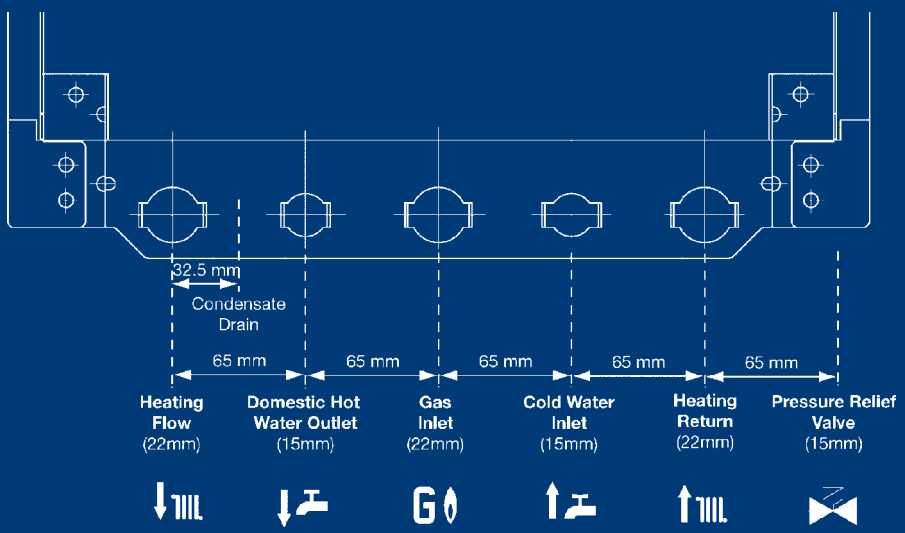
Key features and benefits

- 24kW, 28kW and 33kW wall-mounted models
- Fully modulating outputs from 6.8kW to 33kW - suitable for a wide range of domestic installations
- Supplied complete with wall-mounting jig for easy installation
- Optional space frame kit available to allow for routing of pipework behind the boiler
- Built-in two stage frost protection prolongs appliance lifespan and saves time during installation
- Comprehensive range of fluing options for easy siting
- SEDBUK Band A - the highest energy efficiency rating
- Compatible with the Potterton Single Channel Wireless Programmable Room Thermostat.

- Transmitting/receiving range up to 30m for trouble free operation
- Easy and fast installation in a wide range of locations
- High resistance to interference - reduces loss of radio frequency (RF) signal

Dimensions and clearances





Technical specifications

Flue lengths up to 15m – gives you siting flexibility

1 year warranty

Ultra-low NO_x emissions Class 5 (the best) – helping to protect the environment

Can be situated in an unventilated cupboard

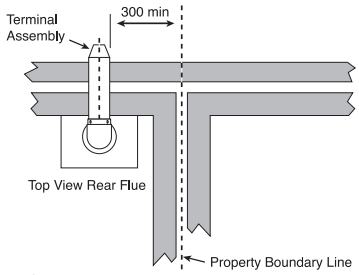
SEDBUK Band A – highest energy efficiency rating

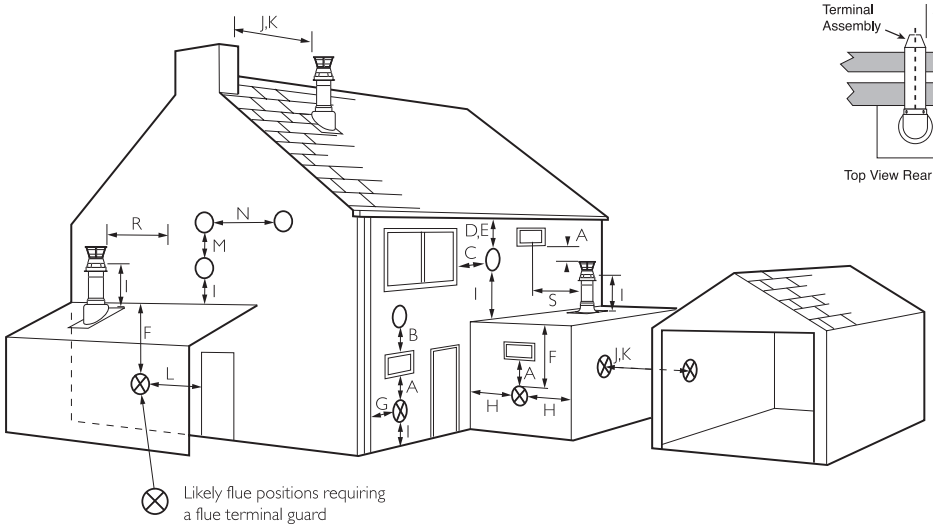
Integral Frost Protection

	Units	Promax Combi 24 HE Plus	Promax Combi 28 HE Plus	Promax Combi 33 HE Plus
Sales Code (Boiler Only)		5121155	5113836	5113835
Sales Code (Std. Flue)		511889	5111073	5111073
Sales Code (Boiler with Std. Flue)		5121156	5113839	5113838
Controls				
Concealed User Controls		Yes	Yes	Yes
Operating Mode Selector Switch With Reset		Yes	Yes	Yes
User Adjustable DHW Temperature		Yes	Yes	Yes
User Adjustable CH Temperature		Yes	Yes	Yes
LCD Operating Status Display		Yes	Yes	Yes
LED Operating Status Display		Yes	Yes	Yes
Integral 24hr Electro-mechanical Timer		Optional	Optional	Optional
Integral 7 day Electronic Timer		Optional	Optional	Optional
Single Channel Wireless Programmable Room Thermostat		Optional	Optional	Optional
Gas				
Gas		Natural	Natural	Natural
Inlet Supply Pressure	mbar	20	20	20
Max. Gas Rate	m3/hr	2.61	3.06	3.6
Max. Central Heating Input	kW	27.4	27.4	32.1
Min. Central Heating Input	kW	7.8	10	10.8
Max. Central Heating Output (Non Condensing)	kW	24	24	28
Min. Central Heating Output (Non Condensing)	kW	6.8	8.7	9.4
Max. Central Heating Output (Condensing)	kW	25.9	25.9	30.3
Min. Central Heating Output (Condensing)	kW	7.4	9.5	10.2
Max. Domestic Hot Water Input	kW	27.4	32.1	37.7
Max. Domestic Hot Water Output	kW	24	28	33
SEDBUK Band		A	A	A
Seasonal Efficiency	%	90.4	90.1	90.1
NO_x Emissions	mg/kWhr	22.3	26	21.8
NO_x Class		5	5	5
EcoHomes Credits		3	3	3
Electrical				
Electrical Supply	Volts/Hz	230/50	230/50	230/50
Permanent Live Required		Yes	Yes	Yes
Power Consumption	Watts	155	155	160
External Fuse Rating	Amps	3	3	3
IPX Rating (Electrical Protection)		IPX5D	IPX5D	IPX5D
Integral Boiler Frost Thermostat		Yes	Yes	Yes
Mechanical				
Wall Mounting Jig		Yes	Yes	Yes
Isolating Valves		Yes	Yes	Yes
Gas Supply Connection	mm	22	22	22
Central Heating Connections	mm	22	22	22
Domestic Hot Water Connections	mm	15	15	15
Condensate Drain Connection	mm	21.5	21.5	21.5
Safety Discharge Connection	mm	15	15	15
Filling Loop Kit		Optional	Optional	Optional
Hydraulic				
Max. Domestic Hot Water Output (Raised 35˚C)	l/min	9.8	11.5	13.5
Min. Domestic Hot Water Operating Flow Rate	l/min	2	2	2
Min. Domestic Hot Water Operating Pressure	bar	0.15	0.15	0.15
Max. Domestic Hot Water System Pressure	bar	8	8	8
Safety Discharge Pressure	bar	3	3	3
Integral Automatic Bypass		Yes	Yes	Yes
Integral Expansion Vessel Capacity	litres	8	8	10
Max. Central Heating System Capacity	litres	125	125	155
Compartment Ventilation		Not Required	Not Required	Not Required
24 hr Pump Exercise		Yes	Yes	Yes
Pump Overrun		Yes	Yes	Yes
Central Heating System Inhibitor		Required	Required	Required
Scale Reducer*		Not Required	Not Required	Not Required
Concentric Flue System				
Standard Concentric Flue Diameter	mm	100	100	100
Standard Concentric Flue Length	mm	685	685	685
Max. Equivalent Horizontal Length	m	10	10	10
Max. Equivalent Vertical Length	m	10	10	10
Twin Pipe Flue System				
Twin Pipe Flue Diameter	mm	80/80	80/80	80/80
Max. Equivalent Vertical Length	m	15	15	15
Max. Equivalent Horizontal Length (Vertical Terminal)	m	15	15	15
Plume Displacement Kit				
Max. Equivalent Vertical Length	m	13	14	8
Weights				
Max. Installation Lift Weight/Gross Packed Weight	kg	44/55.5	45/55.5	46/56.5
Packaged Boiler Dimensions (L x W x D)	mm	964 x 540 x 403	964 x 540 x 403	964 x 540 x 403

* Except in hard water areas.

NOTE: The distance from a fanned draught appliance terminal installed parallel to a boundary may not be less than 300mm in accordance with the diagram below, unless the flue deflector kit is used.





Terminal Position with Minimum Distance		(mm)
A*	Directly below an opening, air brick, opening windows 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

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.**

*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.

MULTIFIT Flues, Fittings and Accessories

Flue options

The Potterton Promax Combi HE Plus can be fitted with flue systems as illustrated.

The standard flue is suitable only for horizontal termination applications.

Maximum permissible equivalent flue lengths are:-

Horizontal Concentric	10 metres
Vertical Concentric	10 metres
Vertical Twin Pipe	15 metres

Any additional 'in line' bends in the flue system must be taken into consideration.

Their equivalent lengths are:-

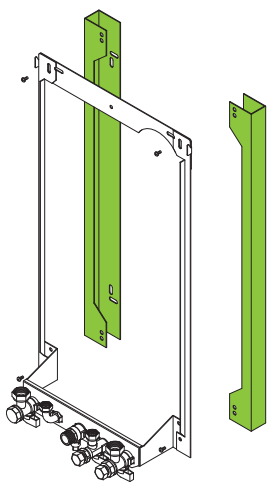
Concentric Pipes:	45° bend	0.5 metre
	93° bend	1.0 metre
Twin Flue Pipe:	45° bend	0.25 metre
	91.5° bend	0.50 metre

The elbow supplied with the boiler is not included in any equivalent length calculations.

The illustrations below and opposite show examples of permissible flue systems.

Instructions for guidance and fitting are included in each kit, where appropriate.

Accessories

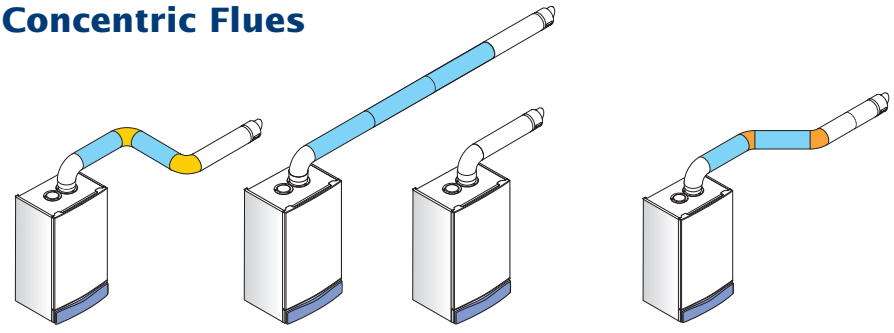


Item Description (MULTIFIT) Flue	Specification	Key & OD Dimensions	'Baxi / Potterton' Sales Code	'Potterton' Sales Code	Multifit Sales Code
Stand Off Kit					5117035
Integral 24 hr Electro-mechanical Timer			247206		247206
Integral 7 Day Electronic Timer			247207		247207
Single channel wireless programmable room thermostat		(As shown)		5117035	
Filling loop kit			248221		248221

Horizontal Concentric Flues

60/100mm

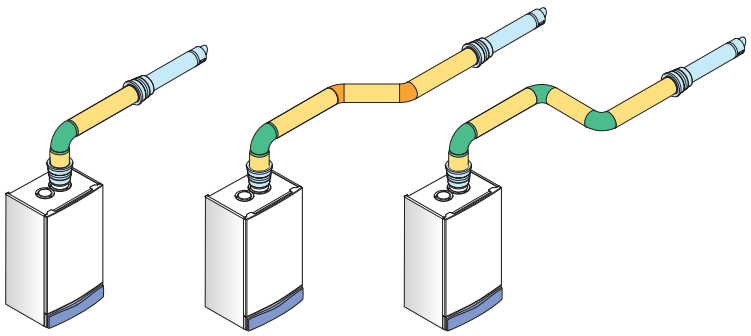
Flue System A



Item Description (MULTIFIT) Flue System A	Specification	Key & OD Dimensions	'Baxi / Potterton' Sales Code	'Potterton' Sales Code	Multifit Sales Code
Standard Horizontal Flue inc Elbow	685mm	60/100mm			5118489
Standard Horizontal Telescopic Flue inc Elbow	315mm - 500mm	60/100mm			5118069
Telescopic Internal Flue Kit		100mm	5119654		5119654
Flue Extension	1000mm	100mm	5111074		5111074
Flue Bend	93 degree	100mm	5111075		5111075
Flue Bend	135 degree	100mm	5111076		5111076
Flue Bend (Pair)	135 degree	100mm	5111085		5111085
Flue Internal Fixing Kit / Wall Liner		100mm	5111067		5111067
Flue Terminal Deflector		60mm	5111068		5111068
Pipe Support	Unpainted	100mm	241105		241105
Pipe Support	Painted white	100mm	5111080		5111080

80/125mm

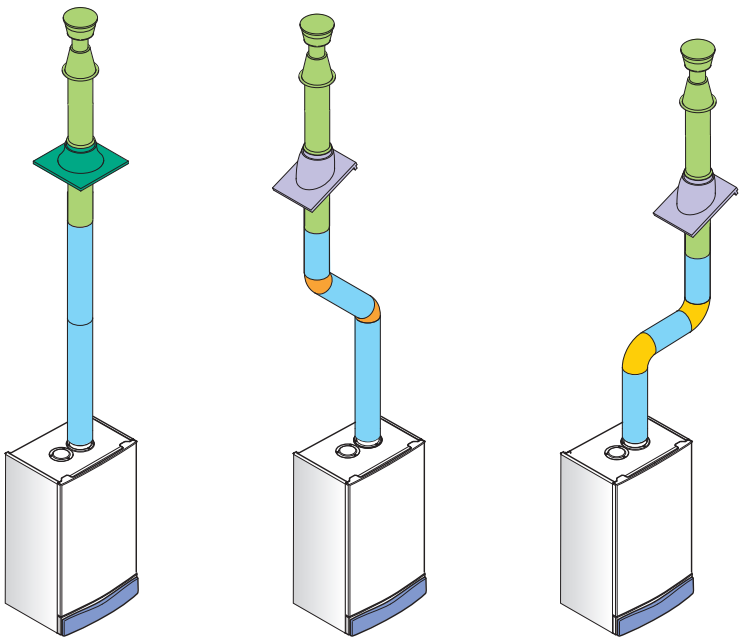
Flue System G



Item Description (MULTIFIT) Flue System G	Specification	Key & OD Dimensions	'Baxi / Potterton' Sales Code	'Potterton' Sales Code	Multifit Sales Code
Horizontal Flue incl boiler & terminal adaptors		125mm			5118580
Flue Extension	1000mm	125mm			5118584
Flue Bend	91.5 degree	125mm			5118588
Flue Bend (pair)	135 degree	125mm			5118597
Pipe Support	For use with 125mm Flue Pipes	125mm			5118610

Vertical Concentric Flues

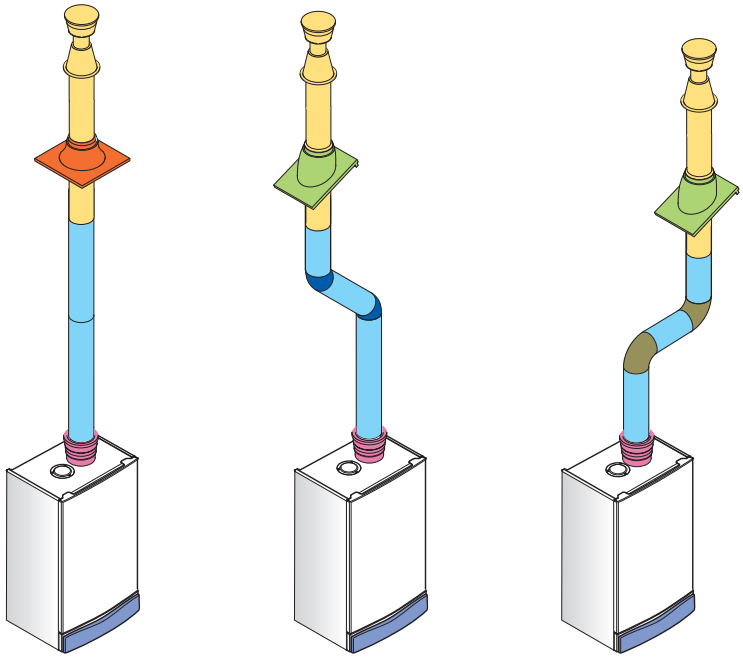
60/100mm
Flue System A



Item Description (MULTIFIT) Flue System A	Specification	Key & OD Dimensions	'Baxi / Potterton' Sales Code	'Potterton' Sales Code	Multifit Sales Code
Vertical Flue Terminal		100mm			5118576
Roof Cover Plate		125mm	246143		246143
Flue Extension	1000mm	100mm	5111074		5111074
Flue Bend	93 degree	100mm	5111075		5111075
Flue Bend (Pair)	135 degree	100mm	5111085		5111085
Flue Bend	135 degree	100mm	5111076		5111076
Pipe Support	Unpainted		241105		241105
Pipe Support	Painted white		5111080		5111080
Pitched Roof Flashing	25 / 45 degree	125mm	246141		246141
Pitched Roof Flashing	35 / 55 degree	125mm	246142		246142
Pitched Roof Flashing*	25 / 50 degree	125mm			5122151
Flat Roof Flashing		125mm	246144		246144

Vertical Concentric Flues

80/125mm
Flue System G

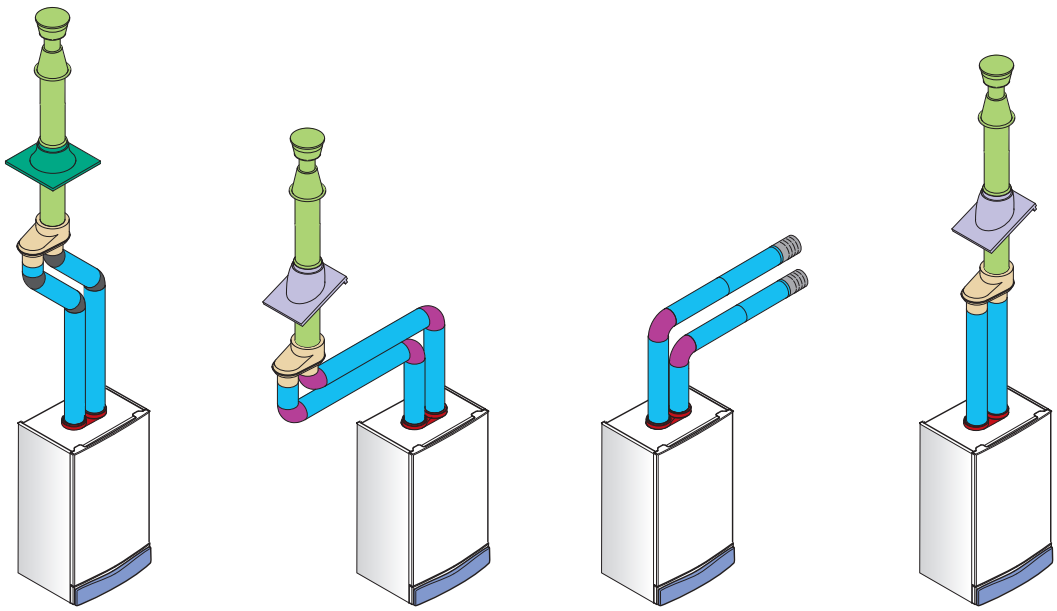


Item Description (MULTIFIT) Flue System G	Specification	Key & OD Dimensions	'Baxi / Potterton' Sales Code	'Potterton' Sales Code	Multifit Sales Code
Vertical Flue Terminal		125mm	5111078		5111078
Flue Extension	1000mm	125mm			5118584
Flue Bend	91.5 degree	125mm			5118588
Flue Bend (Pair)	135 degree	125mm			5118597
Roof Cover Plate		125mm	246143		246143
Flue Vertical Adaptor		100/125mm	5111070		5111070
Pitched Roof Flashing	25 / 45 degree	125mm	246141		246141
Pitched Roof Flashing	35 / 55 degree	125mm	246142		246142
Pitched Roof Flashing*	25 / 55 degree	125mm			5122151
Flat Roof Flashing		125mm	246144		246144
Pipe Support	For use with 125mm Flue Pipes	125mm			5118610

*Available July 2007

Twin Pipe Flues

80/80mm

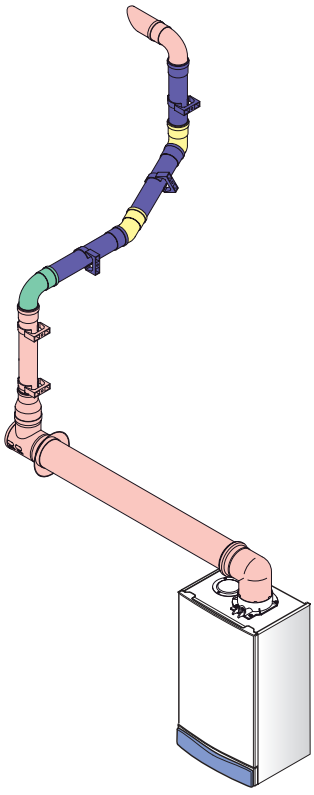


Item Description (MULTIFIT) Flue System N	Specification	Key & OD Dimensions	'Baxi / Potterton' Sales Code	'Potterton' Sales Code	Multifit Sales Code
Vertical Flue Terminal		125mm	5111078		5111078
Roof Cover Plate		125mm	246143		246143
Twin Pipe Flue HorizontalTerminal Kit		80mm			5120172
Twin Pipe Extension (Pair inc Brackets)	1000mm	80mm	5111087		5111087
Twin Pipe Flue Bend (Pair)	90 degree	80mm	5111072		5111072
Twin Pipe Flue Bend (2 Pair)	135 degree	80mm			5111086
Twin Pipe Flue Adaptor (Boiler)		80/80mm			5111079
Twin Pipe Support (Pair)		80mm	5111081		5111081
Twin to Concentric Adaptor 80/80 - 80/125		80/125mm	5111084		5111084
Pitched Roof Flashing	25 / 45 degree	125mm	246141		246141
Pitched Roof Flashing	35 / 55 degree	125mm	246142		246142
Pitched Roof Flashing*	25 / 50 degree	125mm			5122151
Flat Roof Flashing		125mm	246144		246144

*Available July 2007

Plume Displacement Kit

60/100mm



Item Description (MULTIFIT) Flue System K	Specification	Key & OD Dimensions	'Baxi / Potterton' Sales Code	'Potterton' Sales Code	Multifit Sales Code
Plume Displacement Kit inc Elbow & clips		100mm		5117379	5118638
Plume Displacement Kit Extension & clip	1000mm	60mm		5117380	5121368
Plume Displacement Kit Bend	93 degree	60mm		5117381	5121369
Plume Displacement Kit Bend (Pair)	135 degree	60mm		5117382	5121370

Installation and Service

1. Remove packaging and check contents as per installation instructions.

2. Level and tape the template in the chosen location. Mark the position of the flue and fixing positions of the wall jig.

3. Drill the flue hole with a minimum diameter drill of 116mm and secure the wall jig to fixing points previously marked.

7. Insert all of the washers between the pipes and valves (including the gas) and tighten.

8. Connect the condensate discharge pipe, to the appliance.

9. Measure and cut the flue terminal to the required length.

4. Connect all valves and pipe tails to the wall jig ensuring the correct tails are fitted to the valves.

5. Connect all pipe work to the service valves. The system can then be filled and flushed cold if a suitable filling device has been fitted.

6. Remove the sealing caps from the appliance connections. Lift the appliance using the lower edges engaging the slots at the top rear of the wall jig.

10. Position the flue terminal through the wall. Push the flue elbow on to the appliance and draw the terminal back into the elbow. Secure the flue trim to the outside wall face.

11. Drop the control box cover down and completely remove the cover screws. Wire the appliance as per the installation instructions ensuring the wires are routed through the cable clamp.

12. After commissioning the appliance instruct the user in its correct operation. Complete the benchmark log book and hand it to the user along with the user instructions.

We are on your side

Installer support

Corgi registered installers can get expert technical advice directly from one of our highly trained and experienced **heateam** advisers on a dedicated trade advice line. The advisers are available Monday to Saturday, covering the hours when most installers work.

Other Call Centre support staff operate 7 days a week, 363 days a year – so you can call for support at any time you need it. As an installer, you'll be treated as a priority so that you can solve any problem that you or your customer may have with any Potterton boiler that you have installed quickly and easily.

On the very rare occasion that the problem can't be fixed on the phone, a **heateam** service engineer can be sent – usually the next working day.

Customer support

By using **heateam** you can reassure customers that they are in good hands, knowing that you have the back-up of more than 200 service engineers.

Nationwide coverage means that there is always a **heateam** engineer nearby. Each engineer only uses official spare parts and can repair boilers on the first visit 95% of the time.

Expert training

Potterton also gives you access to the very latest training on all Potterton boilers, as well as general training in key areas such as energy efficiency, electronics, combi boilers and more. Training can be delivered at a location close to you or at one of our dedicated training centres in Dartford, Warrington or Warwick.

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

Independently commissioned research has shown that **heateam** has the best performance in the following areas:

- The best call handling time for service*
- The best call handling time for technical advice*
- The best service visit response time*

*Average response times measured against 6 major manufacturers.

For technical support call **heateam** **08706 049 049**

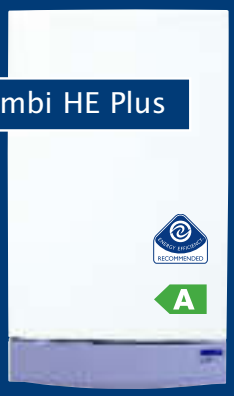
Please note - calls to the contact centre may be recorded or monitored.

The service division of Baxi Heating UK

heateam

The Promax HE range

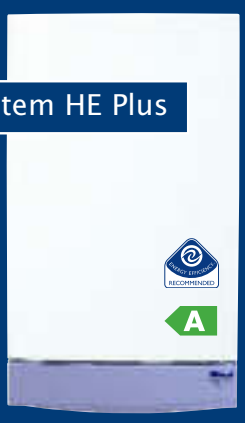
Promax Combi HE Plus



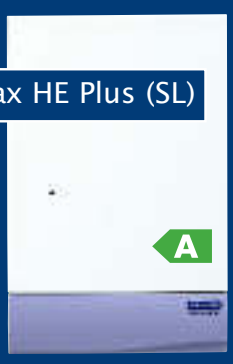
Promax HE Store

Promax HE Plus

Promax System HE Plus



Promax HE Plus (SL)



Promax FSB 30 HE

Current Legislation

An overview of current legislation

As you know, the rules and regulations are changing fast with regards to our business. Here is a brief overview of how things stand at the moment.

- With some exceptions, all boilers in England and Wales must be High Efficiency (SEDBUK Band A or B rated)
- These changes will not include oil boilers until 1st April 2007
- Details of all heat producing appliances must be provided to the Local Authority Building Control (LABC)

Self certification and compliance

The Government realises that the enforcement of the building regulations is important, but Local Authority Building Control will not be able to inspect every new and replacement boiler installation.

However:

- Corgi registered installers who have completed a recognised training programme in energy efficiency (such as Energy Efficiency for Domestic Heating 6084 run by City and Guilds or equivalent) can register on a self-certification scheme run by CORGI
- The installer will provide details of each installation to CORGI, who will then issue a Building Regulations compliance certificate to the householder and notify LABC on the installer's behalf
- Installers who do not belong to a Competent Person scheme will have to obtain a Building Control notice before installing any boiler

Exceptions assessment

To assess exceptions, installers can use a simple points scoring system.

- The procedure incorporates an assessment form that needs to be signed by a competent person
- No assessment is required with regard to the fitting of high efficiency boilers and warm air heaters
- Although oil boilers are regarded as exceptions until 1st April 2007, the installer still needs to complete a form

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You can rely on POTTERTON

ON

Contacts:

General Enquiries Tel: 08706 06 07 80

Technical Information Tel: 08706 049 049

Service Tel: 08706 017 017 Fax: 01926 410 006

Literature Request Tel: 08706 06 06 23

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Potterton

A trading division of Baxi Heating UK Ltd,

a division of Baxi Group.

Brooks House, Coventry Road, Warwick CV34 4LL.

Website: www.potterton.co.uk

IPX5D

BSI REGISTERED FIRM FM35908 BSEN ISO 9001 QUALITY MANAGEMENT SYSTEM STANDARD

ENERGY EFFICIENCY RECOMMENDED

The Potterton Promax HE Plus Range has an energy rating A on a scale of A to G. For more information see www.boilers.org.uk. This is a certification mark.

"Potterton" supports

benchmark™

The code of practice for the installation, commissioning & servicing of central heating systems

CE

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