

# Promax Range Guide

High efficiency boilers

Experts in  
public sector  
housing and  
newbuild

Manufactured  
in the UK  
for 150 years

Our boilers  
use tried  
and tested  
technology

ErP Compliant 

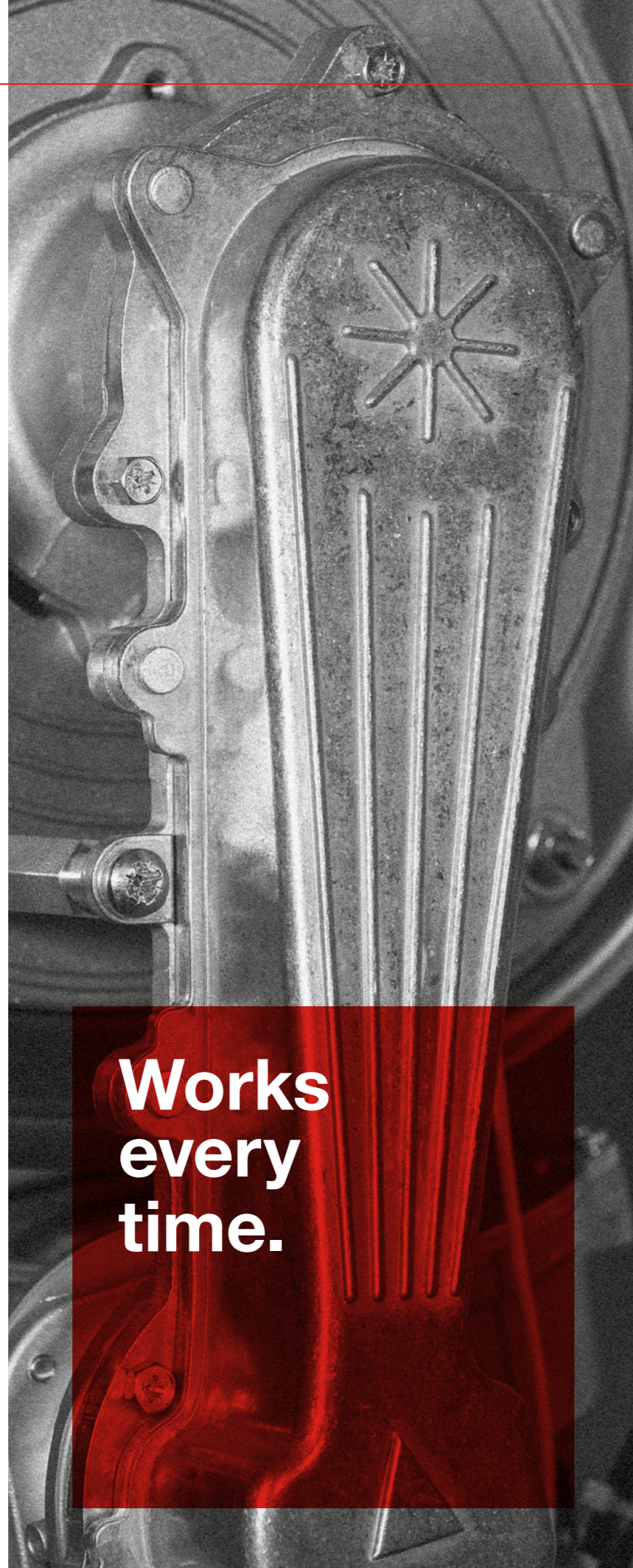
Works every time.

**POTTERTON**



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**Works  
every  
time.**

# Welcome

Over the last 150 years, Potterton has designed and manufactured more than 7 million boilers for UK homes.

Before any Potterton boiler leaves our factory, it must achieve a 100% pass rate throughout our rigorous testing programme. All our products use the latest, proven technology and represent energy efficient, environmentally friendly and easy-to-use home heating solutions.

We provide high quality service and technical support for the lifetime of the product. We work closely with our partners to promote environmental, social and economic sustainability, exceeding expectations and helping to meet carbon reduction targets.

That's why you can depend on us.  
Potterton – works every time.

**Experts in  
public sector  
housing and  
newbuild**

**Manufactured  
in the UK  
for 150 years**

**Our boilers  
use tried  
and tested  
technology**



# Our commitment to you

Potterton can demonstrate our environmental credentials and our quality management systems through achieving the internationally recognised ISO 14001 and ISO 9001 standards.

We are fully committed to our company's Corporate Social Responsibility (CSR) policy, and we strive to work in a sustainable and decent way.

We are committed to operating an ethical business and quality assured supply chain that delivers exceptional customer satisfaction with class leading products and services.

We value our environment and are committed to minimising the carbon emissions in our workplace, products and throughout our supply chain.

We believe that investing in the health and welfare of our people is critical to our future success and long term sustainability.

We build partnerships at a local level by offering practical support such as work experience or training in schools, colleges, institutions, charities and local authorities. In 2014, our employees voted for Marie Curie Cancer Care to be our charity of the year, and together we raised over £68,000, equivalent to 3,430 hours of nursing a terminally ill patient.

Potterton delivers best value through reliable, energy efficient boilers, and excellent customer support and technical backup. Whichever boiler you choose, you can depend on Potterton.



## Reliability

Every boiler is tested using gas, electricity and water before it leaves the production line. If it doesn't get 100%, it doesn't pass.



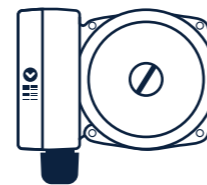
## Efficiency

All Potterton boilers have ultra low NOx emissions - Class 5: the best.



## Engineering quality

Potterton boilers are manufactured in the UK, using tried and tested technology and genuine, approved components.



## Genuine parts

We stock parts for all our boilers for up to 10 years after they have stopped being made.



## Customer support

Our responsive UK customer contact centre and nationwide network of Gas Safe registered engineers are here to help.



## Sales support

Our dedicated teams understand the specific needs of the public sector and housebuilders.





## Promax Combi



A range of high efficiency combi boilers that are quick and easy to install in a wide range of homes. Flexible and reliable, each model offers built-in frost protection and flues that can be fitted almost anywhere.

**24kW to 33kW**

Outputs

**Up to 20m**

Flueing options

**Up to 37%**

Gas savings

\*Based on XL load profile

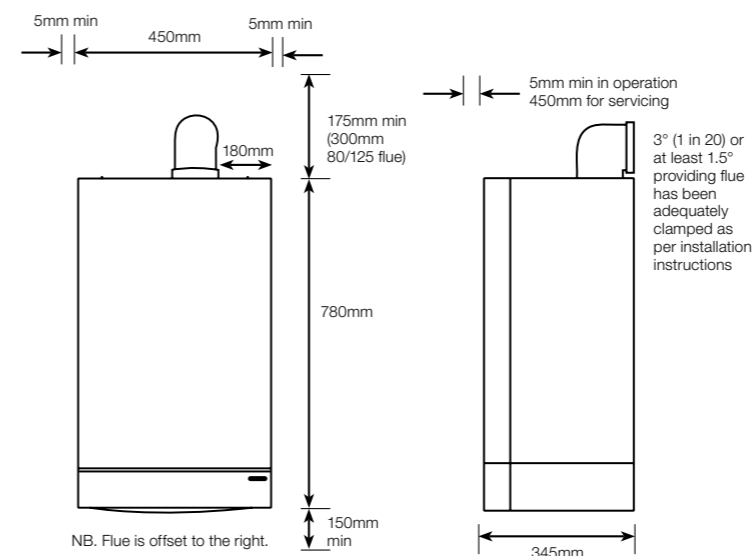
## Features and benefits

### Features

### Benefits

24kW, 28kW and 33kW	A model for most sizes of property
Fully modulating and highly efficient	Boiler intelligently uses the right amount of fuel to meet the set central heating and hot water temperature, saving money on fuel bills
Compatible with Multifit GasSaver	Can give savings of up to 37% on gas for DHW
Pre-plumbing jig	Pipe work can be pre-installed and the boiler added when the property is occupied
Flueing options of up to 20m	Allowing greater flexibility of siting
Optional stand off bracket	Allows pipes to be routed behind the boiler
Separate CH & DHW selector dials	Easy to use controls
NOx 5 - best in class	Complies with the Code for Sustainable Homes
Robust hydraulic connections	Quality and reliability
Optional outdoor weather sensor available	Enhances system control and customer comfort
Optional Offset Elbow available for centre flueing	Allows replacement of boilers with a central flue without the need to drill a new hole

## Dimensions



**Brad Harding**  
Managing Director  
C. Watkins Plumbing Ltd

*Established in 1962 Watkins is one of the leading providers of mechanical, electrical and plumbing services in the South East of England and carries out installations to around 4,000 new properties per year.*

*"Over the last 50 years we have enjoyed a long and successful relationship with Potterton built on a solid foundation of long term commitment.*

*For my team at Watkins it is important when choosing a boiler supplier, we do not look at price alone. Importantly, we compare reliability, service, energy efficiency and product performance and with Potterton we consistently have this.*

*The brand says quality and reliability, and with the added benefit of their technical and service backup and excellent long term relationships, we have every confidence in their range of products."*



## Technical information

The Potterton Promax Combi is compatible with Flue Group A, G and N

### Potterton Promax Combi

	Units	24	28	33
Sales code (boiler only)		7219453	7219455	7219456

#### 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
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
Weather outdoor sensor		Optional	Optional	Optional

#### Gas

Gas (natural gas/LPG)		NG	NG	NG
Inlet supply pressure	mbar	20	20	20
Maximum gas rate	m <sup>3</sup> /hr	2.6	3.1	3.6
Heat input central heating (CH)	kW max gross (QnHs)	22.7	27.4	32.1
	kW min gross (QnHs)	7.8	10	10.8
Heat output CH non-condensing	kW max (Pn)	20.6	24.7	28.9
	kW min (Pn)	6.8	8.7	9.4
Heat output CH condensing	kW max (Pnc)	21	25.9	30.3
	kW min (Pnc)	7.4	9.5	10.2
Heat input domestic hot water	kW max gross (QnwHs)	27.4	32.1	37.7
Heat output domestic hot water	kW max (Pn)	24	28	33
SAP 2009/2012 annual efficiency (PCDB/SEDBUK)	%	89.0	89.0	88.9
NOx class		5	5	5

#### ErP product information

NOx	mg/kWh	20	23	20
Sound power level, indoors	L <sub>WA</sub> dB	50	53	52
Space heating efficiency class		A	A	A
Water heating declared load profile		XL	XL	XL
Water heating efficiency class		A	A	A
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	85	120	125
External fuse rating	Amps	3	3	3
Boiler IPX rating (electrical protection) without integral timer fitted		IPX5D	IPX5D	IPX5D
Integral 'boiler only' frost thermostat		Yes	Yes	Yes

#### Mechanical

	Units	24	28	33
Pre-plumbing / 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
Filling loop kit		Optional	Optional	Optional

#### Hydraulic

Domestic hot water output (raised 35°C) (max)	l/min	9.8	11.5	13.5
Domestic hot water operating flow rate (min)	l/min	2	2	2
Domestic hot water operating pressure (min)	bar	0.15	0.15	0.15
Domestic hot water system pressure (max)	bar	8	8	8
Safety discharge pressure	bar	3	3	3
Integral automatic bypass		Yes	Yes	Yes
Integral expansion vessel capacity	litres	8	8	8
CH system capacity (max)	litres	125	125	125
Compartment ventilation required		No	No	No
24hr pump exercise		Yes	Yes	Yes
Pump overrun		Yes	Yes	Yes

#### Concentric flue systems

Concentric flue diameters	mm	60/100 and 80/125		
Standard horizontal flue kit length (ø 60/100)	mm	685	685	685
Maximum equivalent vertical length (ø 60/100)	m	10	10	10
Maximum equivalent vertical length (ø 80/125)	m	20	20	20
Maximum equivalent horizontal length (ø 60/100)	m	10	10	10
Maximum equivalent horizontal length (ø 80/125)	m	20	20	20

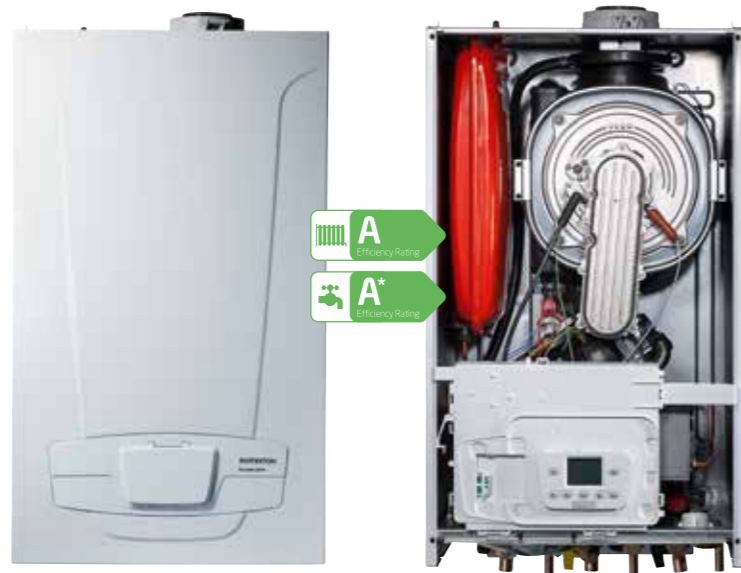
#### Twin flue system

Twin pipe flue diameter	mm	80/80	80/80	80/80
Maximum equivalent vertical length	m	15	15	15
Maximum equivalent horizontal length	m	15	15	15

#### Weights

Gross packaged boiler weight	kg	45.5	45.5	47
Maximum installation lift weight	kg	40.2	40.2	41.7





**2**  
TWO YEAR WARRANTY



## Promax Ultra Combi

A range of high efficiency combi boilers with an excellent SAP 2012 seasonal efficiency rating, providing cost effective Building Regulations Compliance. The 40kW model delivers a higher domestic hot water flow rate for larger properties.

**24kW to 40kW**

Outputs

**Up to 20m**

Flueing options

**Front access to components**

Easier to service

\*Based on XL load profile 24 & 28, XXL for 33 & 40

## Features and benefits

### Features

24kW, 28kW, 33kW and 40kW

SAP 2012 seasonal efficiency figure of 89.1%

Service due indicator

Natural Gas and LPG ready

Front access to all components

Pre-plumbing jig

Flueing options of up to 20m

NOx 5 - best in class

Optional Outdoor weather sensor available

Optional stand off bracket

Optional Offset Elbow available for centre flueing

### Benefits

A model for most sizes of property

Easier, more cost effective Building Regulations compliance

Reminds your customer to call their landlord or housing association to service the boiler

One boiler to suit both fuel types, no need for a conversion kit

Saves time when servicing

Saves time on installation

Allowing greater flexibility of siting

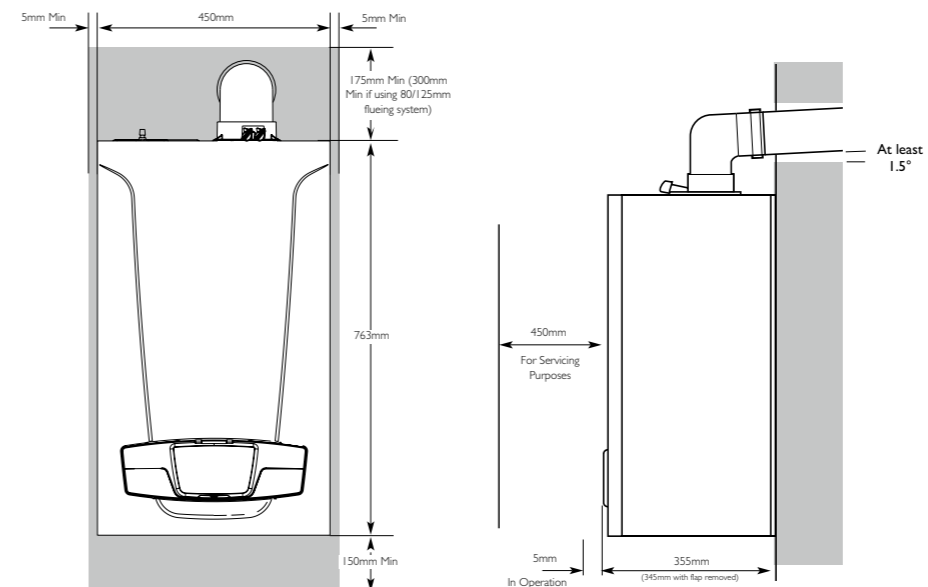
Complies with the Code for Sustainable Homes

Enhances system control and customer comfort

Allows pipes to be run behind the boiler

Allows replacement of boilers with a central flue without the need to drill a new hole

## Dimensions



**Nick Hoggarth**  
Central heating contract manager  
at Flintshire County Council

*"Potterton has been a reliable partner for Flintshire County Council and an integral part of our refurbishment. The boilers are reliable and efficient, and the company's commitment to tenant education and aftersales service has ensured our residents have been able to get the most from their heating."*



## Technical information

The Potterton Promax Ultra Combi is compatible with Flue Group A, G and N

### Potterton Promax Ultra Combi

	Units	24	28	33	40
Sales code		7223762	7223763	7223764	7223765

#### Controls

Concealed user controls		Yes	Yes	Yes	Yes
On/off switch with reset		Yes	Yes	Yes	Yes
User adjustable DHW temperature		Yes	Yes	Yes	Yes
User adjustable CH temperature		Yes	Yes	Yes	Yes
LED temp/status/fault diagnosis display		Yes	Yes	Yes	Yes
Integral 24hr electro-mechanical timer		No	No	No	No

#### Gas

Natural gas		Yes	Yes	Yes	Yes
Nominal inlet supply pressure	mbar	20	20	20	20
Maximum gas rate	m <sup>3</sup> /h	2.61	3.05	3.59	4.35
Propane LPG		Yes	Yes	Yes	Yes
Nominal inlet supply pressure	mbar	37	37	37	37
Maximum gas rate (Note: Gas Type can be selected at commissioning)	kg/h	1.96	2.29	2.70	3.27
Heat input central heating (CH)	kW Max Gross(QnHs)	22.20	26.64	31.08	35.52
	kW Min Gross(QnHs)	3.89	4.32	5.33	6.55
Heat output CH non-condensing	kW Max (Pn)	20.00	24.00	28.00	32.00
	kW min (Pn)	3.40	3.80	4.70	5.70
Heat output CH condensing	kW max (Pnc)	21.20	25.30	29.60	33.80
	kW min (Pnc)	3.70	4.10	5.10	6.20
Heat input domestic hot water	kW Max Gross (QnwHs)	27.40	32.10	37.80	45.80
Heat output domestic hot water	kW Max (Pn)	24.00	28.00	33.00	40.00
Maximum domestic hot water flow rate	l/min @ 35°C rise	9.8	11.5	13.5	16.4
SAP 2009/2012 annual efficiency (PCDB/SEDBUK)	%	89.1	89.1	89.1	89.1
NOx class		5	5	5	5

#### ErP product information

NOx	mg/kWh	15	17	15	24
Space heating efficiency class		A	A	A	A
Water heating declared load profile		XL	XL	XXL	XXL
Water heating efficiency class		A	A	A	A
EcoHomes	Credit	3	3	3	3

#### Electrical

Electrical supply	Volts/Hz	230/50	230/50	230/50	230/50
Permanent live required		Yes	Yes	Yes	Yes
Fitted electrical cable		Yes	Yes	Yes	Yes
Power consumption	Watts	85	90	90	100
External fuse rating	Amps	3	3	3	3
Internal fuse rating	Amps	F2L	F2L	F2L	F2L
Ingress protection rating		IPX5D	IPX5D	IPX5D	IPX5D
Integral 'boiler only' frost thermostat		Yes	Yes	Yes	Yes

	Units	24	28	33	40
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#### Mechanical

Pre-plumbing/wall mounting jig		Yes	Yes	Yes	Yes
Isolating valves		Yes	Yes	Yes	Yes
Gas supply connection	mm	22	22	22	22
Central heating connections	mm	22	22	22	22
Domestic hot water connections	mm	15	15	15	15
Condensate drain connection	mm	21.50	21.50	21.50	21.50
Safety discharge connection	mm	15	15	15	15
Temporary filling loop included		Yes	Yes	Yes	Yes

#### Hydraulic

Domestic hot water output (raised 35°C) (max)	l/min	9.80	11.50	13.50	16.40
Domestic hot water operating flow rate (min)	l/min	2.00	2.00	2.00	2.00
Domestic hot water operating pressure (min)	bar	0.15	0.15	0.15	0.15
Domestic hot water system pressure (max)	bar	8	8	8	8
CH safety discharge pressure	bar	3	3	3	3
Integral automatic bypass		Yes	Yes	Yes	Yes
Integral expansion vessel capacity	litres	8	8	8	8
Max capacity of central heating system	litres	125	125	125	125
Compartment ventilation requirement		No	No	No	No
CH system inhibitor required		Yes	Yes	Yes	Yes
24 hour pump exercise		Yes	Yes	Yes	Yes
Pump overrun		Yes	Yes	Yes	Yes

#### Concentric flue systems

Concentric flue diameters	mm	60/100 and 80/125			
Standard horizontal flue kit length (60/100mm)	mm	685	685	685	685
Max equiv length horizontal/vertical (60/100mm)	m	10	10	10	10
Max equiv length horizontal/vertical (80/125mm)	m	20	20	20	20
Equivalent length per 135° bend	m	0.50	0.50	0.50	0.50
Equivalent length per 93° bend	m	1.00	1.00	1.00	1.00

#### Twin flue system

Diameters	mm	80/80	80/80	80/80	80/80
Max equiv length horizontal/vertical (parallel pipes)	m	15	15	15	15
Equivalent length per 135° bend	m	0.25	0.25	0.25	0.25
Equivalent length per 91.5° Bend	m	0.50	0.50	0.50	0.50

#### Weights

Max installation lift weight	kg	36.0	36.0	38.0	39.0
Gross packaged boiler weight	kg	41.5	41.5	43.5	44.5





## Promax System



Each of the five models are fully modulating and can be sited easily with flue lengths of up to 20m. Boilers are suitable for homes with a high demand for hot water.

**12kW to  
32kW**

Outputs

**Up to 20m**

Flueing options

**Up to 37%**

Gas savings

## Features and benefits

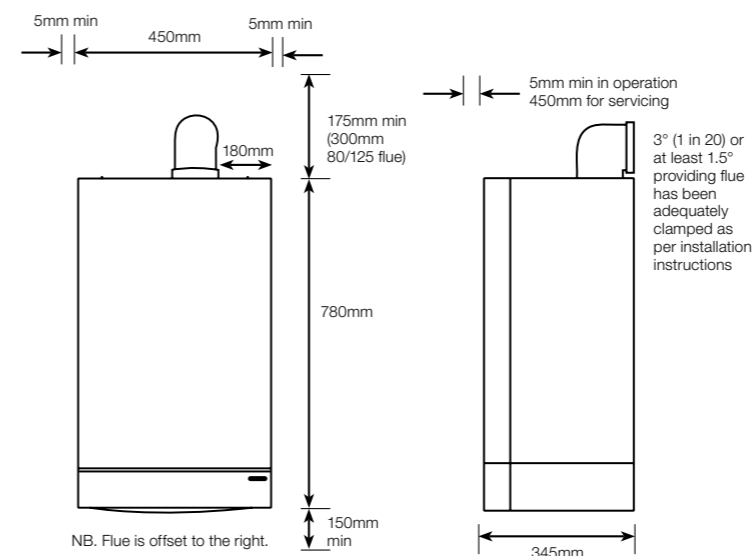
### Features

12kW, 15kW, 18kW, 24kW and 32kW  
Fully modulating and highly efficient  
Compatible with Multifit GasSaver  
Compatible with Potterton Solar, Megaflo Eco Solar Cylinder and Santon Premier Plus Solar cylinder  
Pre-plumbing jig

### Benefits

A model for most sizes of property  
Boiler intelligently uses the right amount of fuel to meet the set central heating temperature, saving money on fuel bills  
Can give savings of up to 37% on gas for DHW  
Greater fuel savings for hot water - all available from one manufacturer  
Pipework can be pre-installed and the boiler added when the property is occupied  
Allowing greater flexibility of siting  
Allows pipes to be routed behind the boiler  
Complies with the Code for Sustainable Homes  
Quality and reliability  
Allows replacement of boilers with a central flue without the need to drill a new hole

## Dimensions



**Andrew Stirling**  
Business Development Manager  
Local Government, Amey

*"We have used the Potterton Promax System and Combination boiler for a number of years, installing them on our Social Housing contracts.*

*The boilers are straight forward to fit with a good choice of flueing options available and the commissioning is easy.*

*We find the boilers extremely reliable and having been involved in fitting well over 9,000 boilers since 2009, the product has performed superbly over that time with very few mechanical issues to attend to.*

*The maintenance and servicing of the boiler is easily carried out and our engineers have no issues with them and on the rare occasions that spares are needed they are readily available through the supply chain.*

*We have found that the sales team in Scotland, Heat Team and the back office support to be extremely effective in their dealings with us and cannot commend them high enough."*



## Technical information

The Potterton Promax System is compatible with Flue Group A, G and N

### Potterton Promax System

	Units	12	15	18	24	32k
Sales code (boiler only)		7219457	7219458	7219459	7219460	7219461

#### Controls

Concealed user controls		Yes	Yes	Yes	Yes	Yes
Operating mode selector switch with reset		Yes	Yes	Yes	Yes	Yes
User adjustable CH temperature		Yes	Yes	Yes	Yes	Yes
LED operating status display		Yes	Yes	Yes	Yes	Yes

#### Gas

Gas (natural gas/LPG)		NG	NG	NG	NG	NG
Inlet supply pressure	mbar	20	20	20	20	20
Maximum gas rate	m <sup>3</sup> /hr	1.31	1.69	1.95	2.61	3.48
Heat input central heating (CH)	kW max gross (QnHs)	13.8	17.1	20.5	27.4	36.4
	kW min gross (QnHs)	4.4	4.0	4.5	7.8	10.8
Heat output CH non-condensing	kW max (Pn)	12.4	15.4	18.5	24.7	32.8
	kW min (Pn)	3.9	3.9	4.2	6.8	9.4
Heat output CH condensing	kW max (Pnc)	13	16.2	19.4	25.9	34.4
	kW min (Pnc)	4.2	4.2	4.5	7.4	10.2
SAP 2009/2012 annual efficiency (PCDB/SEDBUK)	%	89.0	89.0	89.0	89.0	89.0
NOx class		5	5	5	5	5

#### ErP product information

NOx	mg/kWh	15	25	29	20	24
Sound power level, indoors	L <sub>WA</sub> dB	55	52	53	58	54
Space heating efficiency class		A	A	A	A	A
EcoHomes	Credits	3	3	3	3	3

#### Electrical

Electrical supply	Volts/Hz	230/50	230/50	230/50	230/50	230/50
Permanent live required		Yes	Yes	Yes	Yes	Yes
Power consumption	Watts	110	95	105	115	125
External fuse rating	Amps	3	3	3	3	3
Boiler IPX rating (electrical protection)		IPX5D	IPX5D	IPX5D	IPX5D	IPX5D
Integral 'boiler only' frost thermostat		Yes	Yes	Yes	Yes	Yes

	Units	12	15	18	24	32
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#### Mechanical

Wall mounting jig		Yes	Yes	Yes	Yes	Yes
Isolating valves		Yes	Yes	Yes	Yes	Yes
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
Safety discharge connection	mm	15	15	15	15	15

#### Hydraulic

Safety discharge pressure	bar	3	3	3	3	3
Integral automatic bypass		Yes	Yes	Yes	Yes	Yes
Integral expansion vessel	litres	8	8	8	8	8
Maximum capacity of CH system	litres	125	125	125	125	125
Compartment ventilation required		No	No	No	No	No
24hr pump exercise		Yes	Yes	Yes	Yes	Yes
Pump overrun		Yes	Yes	Yes	Yes	Yes

#### Concentric flue systems

Concentric flue diameter	mm	60/100 and 80/125				
Standard horizontal flue kit length (ø 60/100)	mm	685	685	685	685	685
Maximum equivalent vertical length (ø 60/100)	m	10	10	10	10	10
Maximum equivalent vertical length (ø 80/125)	m	20	20	20	20	20
Maximum equivalent horizontal length (ø 60/100)	m	10	10	10	10	10
Maximum equivalent horizontal length (ø 80/125)	m	20	20	20	20	20

#### Twin flue system

Twin pipe flue diameter	mm	80/80	80/80	80/80	80/80	80/80
Maximum equivalent vertical length	m	15	15	15	15	15
Maximum equivalent horizontal length	m	15	15	15	15	15

#### Weights

Gross packaged boiler weight	kg	41.5	41.5	41.5	43	43.5
Maximum installation lift weight	kg	36.4	36.4	36.4	37.9	38.4





## Promax SL Heat

Deceptively small, the slimline Potterton Promax SL Heat is a powerful, high efficiency boiler available in five outputs. All models are fully modulating and can be installed in standard kitchen units.

**12kW to 30kW**

Outputs

**Compact and light**

For easier installation

**Three wire connection**

Saves time

## Features and benefits

### Features

12kW, 15kW, 18kW, 24kW and 30kW

Fully modulating and highly efficient

Compatible with Potterton Solar, Megaflo Eco Solar Cylinder and Santon Premier Plus Solar cylinder

No pump overrun.  
Does not require a permanent live

Simple mounting plate

Compact and light

Reset button

NOx 5 - best in class

### Benefits

A model for most sizes of property

Boiler intelligently uses the right amount of fuel to meet the set central heating temperature, saving money on fuel bills

Greater fuel savings for hot water - all available from one manufacturer

Three wire connection saves time on installation

Easier installation

Can be installed discreetly in a standard kitchen unit

No complicated controls

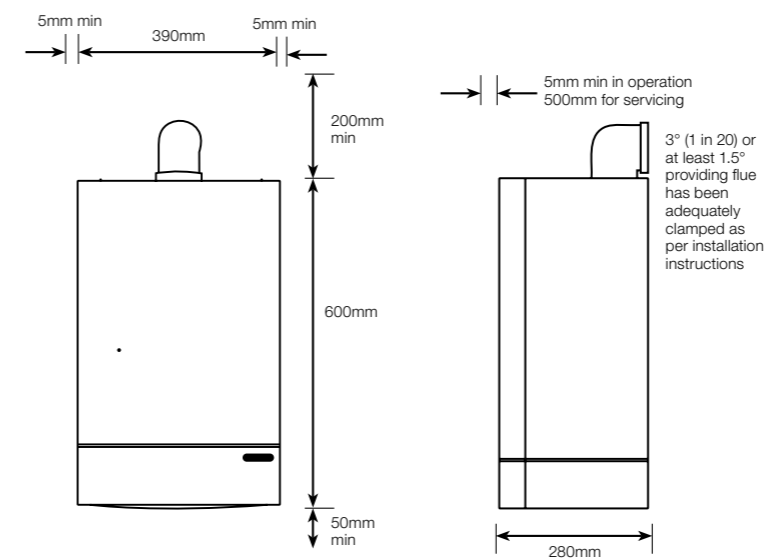
Complies with the Code for Sustainable Homes



**Adrian Reay. ICIQB, ACIAT**  
Managing Director Ergo

*"We specify the Potterton Promax range of boilers because after identifying our clients' needs, they tick all the boxes. They are quick and easy to install for contractors, there is minimal maintenance for landlords, we get complete back-up from Baxi Customer Support and invaluable expertise from the new business team. All in all we would recommend Promax boilers without hesitation for any new build and refurbishment works."*

## Dimensions





## Technical information

The Potterton Promax SL Heat is compatible with Flue Group B, L and P

### Potterton Promax SL Heat

	Units	12	15	18	24	30
Sales code (boiler only)		7219398	7219399	7219400	7219401	7219402

#### Controls

Reset button		Yes	Yes	Yes	Yes	Yes
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#### Gas

Gas (natural gas/LPG)		NG	NG	NG	NG	NG
Inlet supply pressure	mbar	20	20	20	20	20
Maximum gas rate	m <sup>3</sup> /hr	1.34	1.64	1.94	2.31	2.95
Heat input central heating (CH)	kW max gross (QnHs)	13.34	16.88	20.18	24.5	33.76
	kW min gross (QnHs)	10.2	10.2	10.2	10.2	10.2
Heat output CH non-condensing	kW max (Pn)	11.82	15.24	17.81	22	30.18
	kW min (Pn)	9.14	9.14	9.14	9.14	9.14
Heat output CH condensing	kW max (Pnc)	12.81	16.49	19.27	23.8	32.61
SAP 2009/2012 annual efficiency (PCDB/SEDBUK)	%	88.7	89.4	88.7	88.8	88.8
NOx class		5	5	5	5	5

#### ErP product information

NOx	mg/kWh	20	20	20	19	24
Sound power level, indoors	L <sub>WA</sub> dB	38	46	49	52	58
Space heating efficiency class		A	A	A	A	A
EcoHomes	credits	3	3	3	3	3

#### 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

	Units	12	15	18	24	30
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#### Mechanical

Gas supply connection	inch	½	½	½	½	½
Central heating connections	mm	22	22	22	22	22
Condensate drain connection	inch	1.0	1.0	1.0	1.0	1.0
Upward piping route	mm	Yes	Yes	Yes	Yes	Yes

#### Hydraulic

Compartment ventilation required		No	No	No	No	No
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#### Concentric flue systems

Concentric flue diameter	mm	70/110				
Concentric standard flue length	mm	800	800	800	800	800
Maximum equivalent vertical length (ø 70/110)	m	4	4	4	4	4
Maximum equivalent horizontal length (ø 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
Maximum equivalent vertical length	m	75	75	75	75	75
Maximum equivalent horizontal length	m	75	75	75	75	75

#### Plume displacement kit

Compatibility		✓	✓	✓	✓	✓
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#### Weights

Gross packaged boiler weight	kg	36.2	36.2	36.2	36.2	36.2
Maximum installation lift weight	kg	26	26	26	26	26





## Promax Store

Designed to fit easily in a standard airing cupboard, the Potterton Promax Store is an integrated hot water storage and central heating boiler.

Up to  
**150L** store

For high hot  
water demand

\*Based on XL load profile, 150ltr B rated

Up to **20m**

Flueing options

Unique  
roller system

Easier to install



## Features and benefits

### Features

Available in 90, 115 or 150 litre stores

Fully modulating and highly efficient

Unique roller system

Built-in two stage frost protection

Flueing options of up to 20m

Fully pumped sealed system

Domestic hot water priority system

7 day digital  
easy to use programmer

### Benefits

Meets the most demanding hot water requirements

Boiler intelligently uses the right amount of fuel to meet the set central heating temperature, saving money on fuel bills

Easier to move and install

Can be installed in basements or garages

Allowing for greater boiler siting flexibility

No tanks in the loft required

Plenty of hot water, whenever you need it

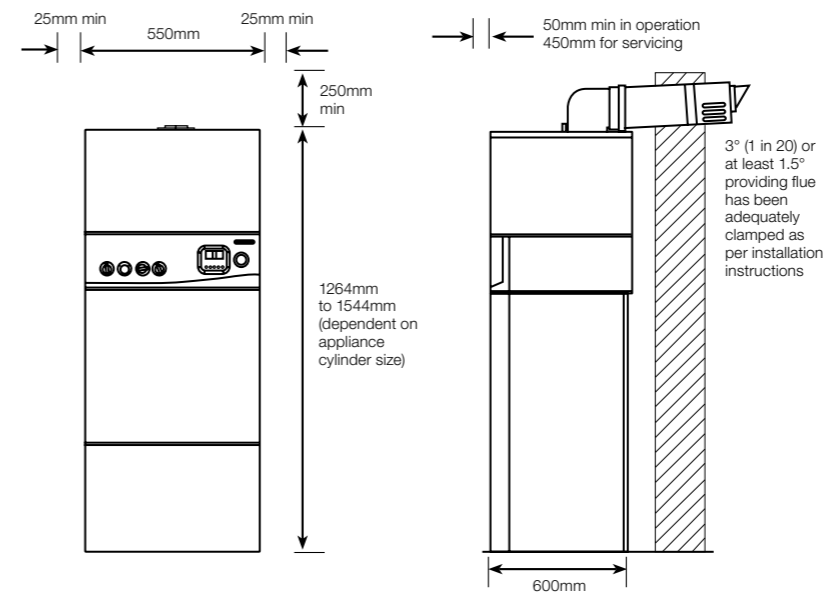
Factory fitted for quicker installation



Paul Wright  
SPS

*"Why do we choose Potterton boilers? Well there are lots of reasons but it all boils down to quality. Quality components that mean we can provide a 2 year warranty on our new build installations. Quality support with next day breakdown assistance. Quality build for quick and easy installation. All for a highly competitive price, that really is quality in my book."*

## Dimensions





## Technical information

The Potterton Promax Store is compatible with Flue Group A, G and N

### Potterton Promax Store

	Units	90L	115L	150L
Sales code (boiler including cylinder)		7219463	7219465	7219466

#### Controls

Operating mode selector switch with reset		Yes	Yes	Yes
User adjustable DHW temperature		Yes	Yes	Yes
User adjustable CH temperature		Yes	Yes	Yes
LED operating status display		Yes	Yes	Yes
Integral 7 day twin channel timer		Yes	Yes	Yes

#### Gas

Gas (natural gas/LPG)		NG	NG	NG
Inlet supply pressure	mbar	20	20	20
Maximum gas rate	m <sup>3</sup> /hr	2.6	2.6	2.6
Heat input central heating (CH)	kW max gross (QnHs)	27.4	27.4	27.4
	kW min gross (QnHs)	7.8	7.8	7.8
Heat output CH non-condensing	kW max (Pn)	24	24	24
	kW min (Pn)	6.8	6.8	6.8
Heat output CH condensing	kW max (Pnc)	25.9	25.9	25.9
	kW min (Pnc)	7.6	7.6	7.6
SAP 2009/2012 annual efficiency (PCDB/SEDBUK)	%	89.0	89.0	89.0
NOx class		5	5	5

#### ErP product information

NOx	mg/kWh	18	18	18
Sound power level, indoors	L <sub>WA</sub> dB	57	57	57
Space heating efficiency class		A	A	A
Water heating declared load profile		XL	XL	XL
Water heating efficiency class		A	A	B
EcoHomes	Credits	3	3	3

	Units	90L	115L	150L
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#### Electrical

Electrical supply	volts/Hz	230/50	230/50	230/50
Permanent live required		Yes	Yes	Yes
Power consumption	watts	126	126	126
External fuse rating	amps	3	3	3
Boiler IPX rating (electrical protection)		3	3	3
Integral 'boiler only' frost thermostat		Yes	Yes	Yes
Back up immersion heater (optional)		Yes	Yes	Yes

#### Mechanical

Gas supply connection	mm	22	22	22
Central heating connections	mm	22	22	22
Condensate drain connection	mm	21.5	21.5	21.5

#### Hydraulic

Domestic hot water flow rate (max)	l/min	25	25	25
Safety discharge pressure	bar	3	3	3
Integral automatic bypass		Yes	Yes	Yes
Integral expansion vessel capacity	litres	12	12	12
Compartment ventilation required		No	No	No
24hr pump exercise		Yes	Yes	Yes
Pump overrun		Yes	Yes	Yes

#### Concentric flue systems

Concentric flue diameters	mm	60/100 and 80/125		
Standard horizontal flue kit length	mm	685	685	685
Maximum equivalent vertical length (ø 60/100)	m	10	10	10
Maximum equivalent vertical length (ø 80/125)	m	20	20	20
Maximum equivalent horizontal length (ø 60/100)	m	10	10	10
Maximum equivalent horizontal length (ø 80/125)	m	20	20	20

#### Twin flue system

Twin pipe flue diameter	mm	80/80	80/80	80/80
Maximum equivalent vertical length	m	15	15	15
Maximum equivalent horizontal length	m	15	15	15



# Flue solutions

Our flue kits now come with positive screw fixings for all connections and are available in a choice of lengths to reduce the need for onsite cutting. By popular demand we offer a choice of colours for the terminals to match existing rainwater systems.

## Maximum recommended flue lengths

Potterton Combi / System / Store	A (60/100 Concentric)	G (80/125 Concentric)	N (80/80 Twin Pipe)
Horizontal	10	20	15
Vertical	10	20	15
Potterton Heat	B (70/110 Concentric)	P (80/80 Twin Pipe)	
Horizontal	4	75	
Vertical	4	75	

Note - for more information on equivalent flue lengths when using flue bends, please refer to the relevant installation instruction.

## Horizontal concentric flues Ø 60/100mm

### MULTIFIT FLUE GROUP A

Item	Description (multifit) flue system	Colour	Specification	Key and OD dimensions	Sales code
1	Horizontal telescopic flue inc. low profile elbow and fixing screws	White pipe/ white terminal	315mm – 500mm	100mm	720599401
2	Horizontal telescopic flue inc. low profile elbow and fixing screws	White pipe/ black terminal	315mm – 500mm	100mm	720598701
3	Horizontal telescopic flue inc. Low profile elbow and fixing screws	White pipe/ brown terminal	315mm – 500mm	100mm	720642701
4	Standard horizontal flue inc. low profile elbow and fixing screws*	White pipe/ black terminal	685mm	100mm	7222019
5	Flue terminal deflector	White		60mm	720644201
6	Flue terminal deflector	Black		60mm	5111068
7	Flue terminal deflector	Brown		60mm	720644301
8	1m flue extension inc. fixing screws	White	1000mm	100mm	720648801
9	0.5m flue extension inc. fixing screws	White	500mm	100mm	720643001
10	0.25m flue extension inc. fixing screws	White	250mm	100mm	720643101
11	93° flue bend inc. fixing screws	White	93°	100mm	720648401
12	135° flue bend inc. fixing screws	White	135°	100mm	720648501
13	135° flue bend inc. fixing screws (pair)	White	135°	100mm	720647901
14	Offset adaptor elbow	White		100mm	720635501
15	Stainless steel terminal guard – Ø 60/100	S/S	Stainless steel	100mm	720627901

## Plume displacement kits Ø 60/100mm

### MULTIFIT FLUE GROUP A

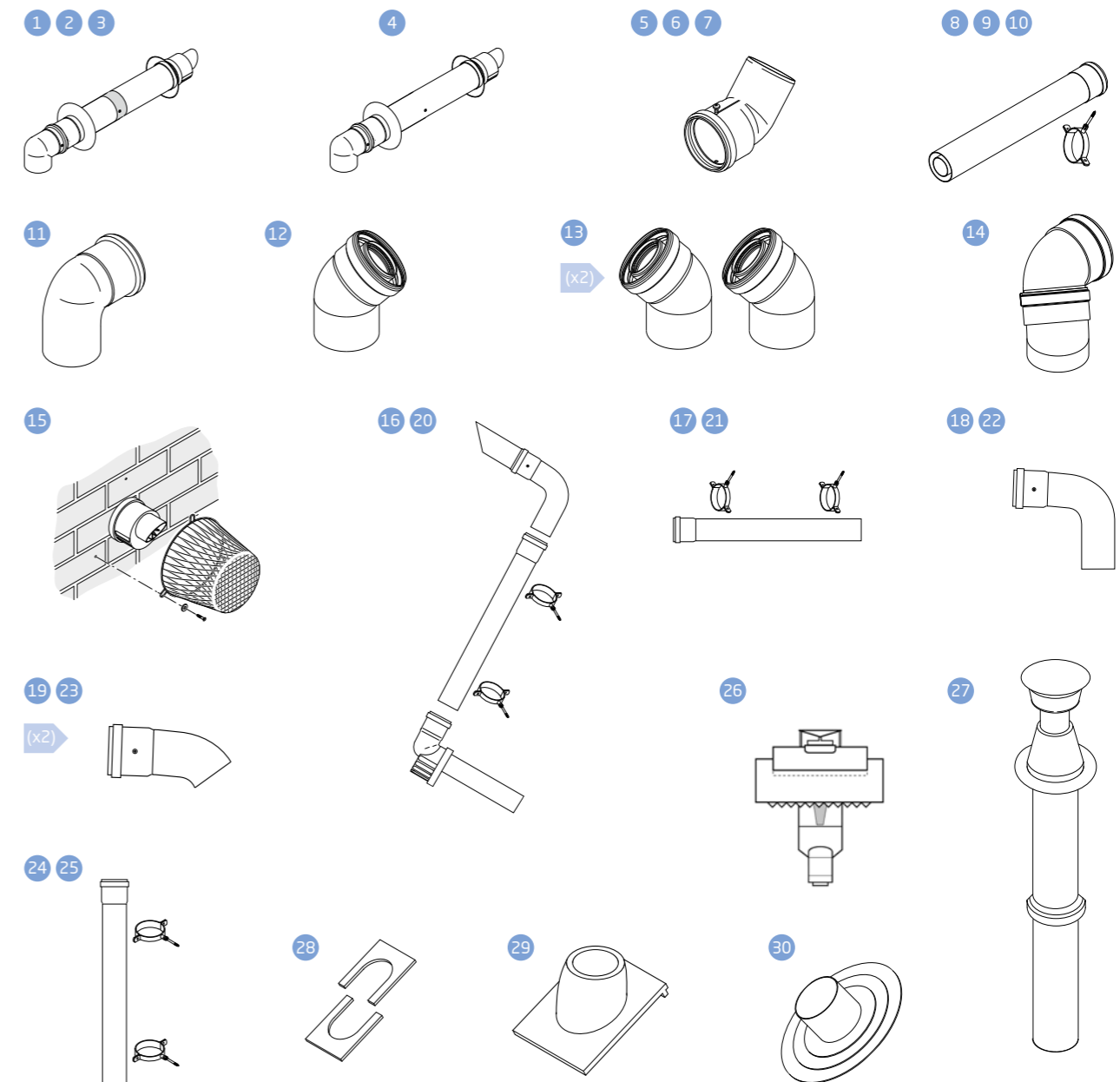
Item	Description (multifit) flue system	Colour	Specification	Key and OD dimensions	Sales code
16	Plume displacement terminal kit inc. 1m extension and brackets**	White		60mm	720627001
17	Plume displacement kit extension and brackets	White	1000mm	60mm	720643401
18	Plume displacement kit bend	White	93°	60mm	5121369
19	Plume displacement kit bend – pair	White	135°	60mm	5121370
20	Plume displacement terminal kit inc. 1m extension and brackets***	Black		60mm	720622901
21	Plume displacement kit extension and brackets	Black	1000mm	60mm	720643301
22	Plume displacement kit bend	Black	93°	60mm	720648701
23	Plume displacement kit bend – pair	Black		60mm	720648601
	Plume displacement terminal guard (not shown)	Stainless Steel	100mm	60mm	720644601
24	Under balcony eaves flue kit	White		60mm	7211039
25	Under balcony eaves flue kit	Black		60mm	7211041

## Vertical concentric flues Ø 60/100mm

### MULTIFIT FLUE GROUP A

Note - this flue group is ONLY suitable for combi and system appliances

Item	Description (multifit) flue system	Colour	Specification	Key and OD dimensions	Sales code
26	Vertical ridge flue terminal	Brown		100mm	720647101
27	Vertical flue terminal	Black		100mm	5118576
28	Roof cover plate			125mm	246143
8	1m flue extension inc. fixing screws	White	1000mm	100mm	720648801
9	0.5m flue extension inc. fixing screws	White	500mm	100mm	720643001
10	0.25m flue extension inc. fixing screws	White	250mm	100mm	720643101
11	93° flue bend inc. fixing screws	White	93°	100mm	720648401
12	135° flue bend inc. fixing screws	White	135°	100mm	720648501
13	135° flue bend (pair) inc. fixing screws	White	135°	100mm	720647901
29	Pitched roof flashing		25°/50°	125mm	5122151
30	Flat roof flashing			125mm	246144



\*Not compatible with items 16 and 20. \*\*Compatible with item 1. \*\*\*Compatible with item 2.



# Flue solutions

## Horizontal concentric flues Ø 80/125mm

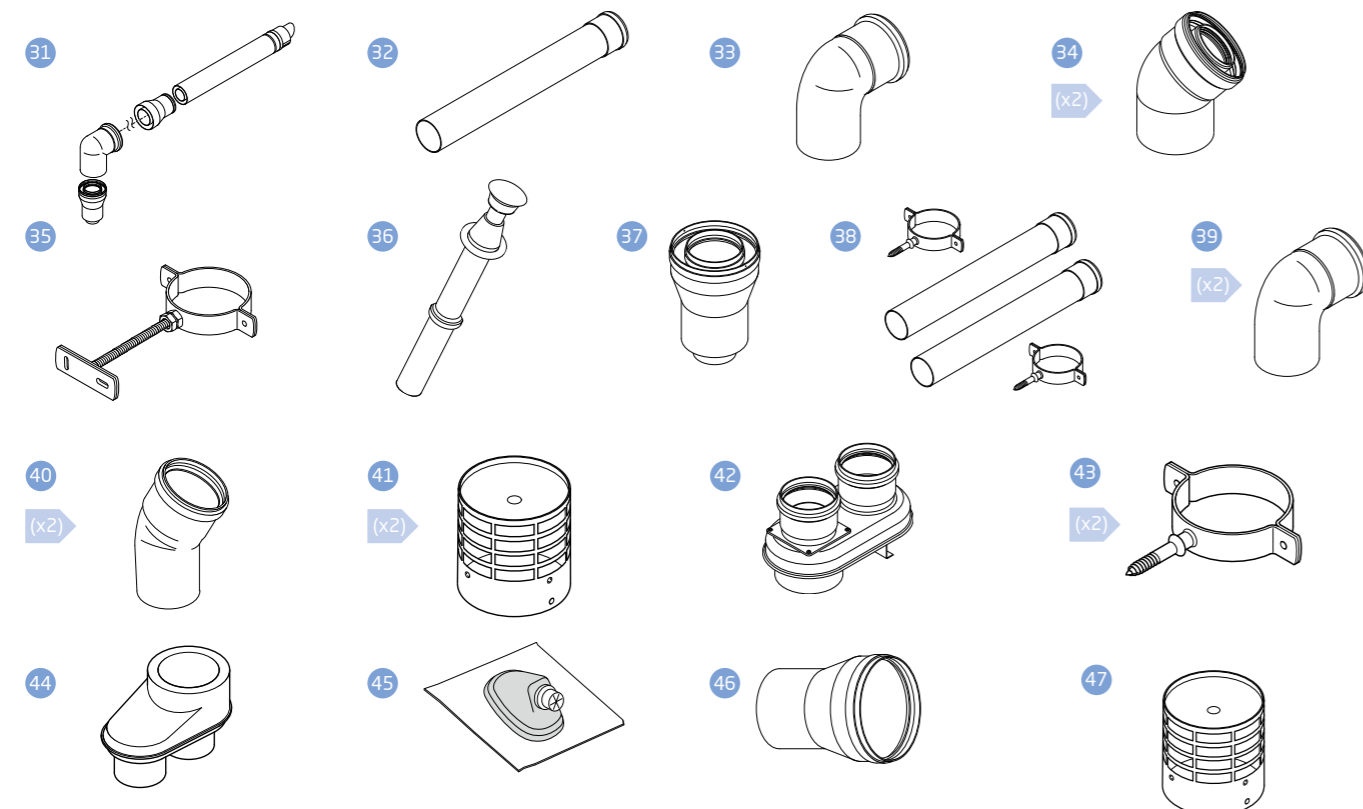
### MULTIFIT FLUE GROUP G

Item	Description (multifit) flue system	Colour	Specification	Key and OD dimensions	Sales code
31	Horizontal flue inc. boiler and terminal adaptors	Black		125mm	5118580
32	1m flue extension	White	1000mm	125mm	5118584
33	Flue bend	White	91.5°	125mm	5118588
34	Flue bend (pair)	White	135°	125mm	5118597
35	Pipe support bracket	White	125mm flue pipe	125mm	5118610

## Vertical concentric flues Ø 80/125mm

### MULTIFIT FLUE GROUP G

Item	Description (multifit) flue system	Colour	Specification	Key and OD dimensions	Sales code
36	Vertical flue terminal	Black		125mm	5111078
32	1m flue extension	White	1000mm	125mm	5118584
33	Flue bend	White	91.5°	125mm	5118588
34	Flue bend (pair)	White	135°	125mm	5118597
28	Roof cover plate			125mm	246143
37	Flue vertical adaptor	White		100/125mm	5111070
29	Pitched roof flashing		25°/55°	125mm	5122151
30	Flat roof flashing			125mm	246144
35	Pipe support bracket	White	125mm flue pipe	125mm	5118610



## Twin pipe flues 80/80mm

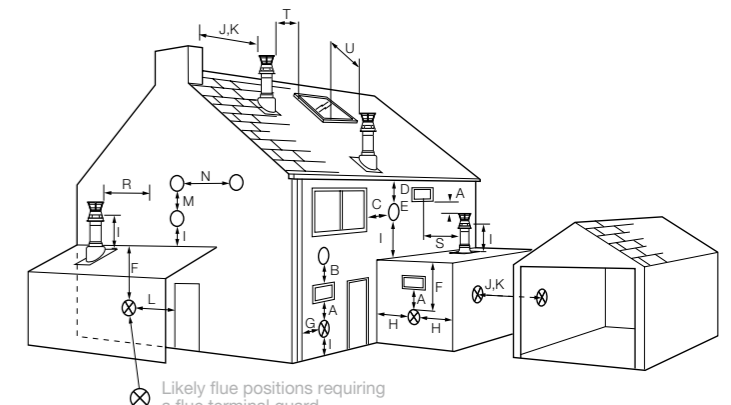
### MULTIFIT FLUE GROUP N

Note - this flue group is ONLY suitable for combi and system appliances

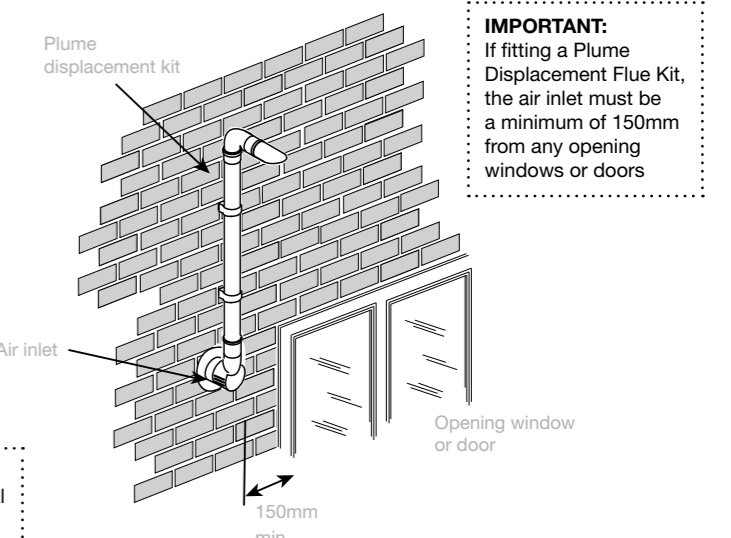
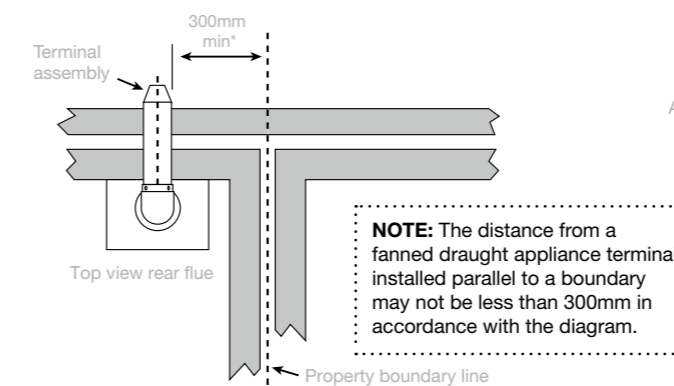
Item	Description (multifit) flue system	Colour	Specification	Key and OD dimensions	Sales code
38	Vertical flue terminal	Black		125mm	5111078
40	Twin pipe extension (pair inc. Brackets)	White	1000mm	80mm	5111087
41	Twin pipe flue bend (pair)	White	90°	80mm	5111072
42	Twin pipe flue bend (pair)	White	135°	80mm	5111086
28	Roof cover plate			125mm	246143
43	Twin pipe flue horizontal terminal kit (air and exhaust)	Stainless steel		80mm	5120172
44	Twin pipe flue adaptor (boiler)	White		80/80mm	720089801
45	Twin pipe support (pair)	White		80mm	5111081
46	Twin to concentric adaptor 80/80 - 80/125	White		80/125mm	5111084
31	Pitched roof flashing		25°/50°	125mm	5122151
32	Flat roof flashing			125mm	246144
47	Pitch roof flue terminal	Black	25°/50°	60mm	720576301
48	Pitched roof terminal adaptor kit	White		60-80mm	5121792
49	Single flue terminal (air only)			80mm	5121791

#### Terminal position with minimum distance

Label	Description	(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 <sup>2</sup>	Below gutters, soil pipes or drain pipes	25
E <sup>2</sup>	Below eaves	25
F <sup>2</sup>	Below balconies or car port roof	25
G <sup>2</sup>	From a vertical drain pipe or soil pipe	25
H <sup>2</sup>	From an internal or external corner	25
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
K	From a terminal facing a terminal (Vertical flue)	600
L	From an opening in a 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)	300
T	Adjacent to windows or openings on pitched and flat roofs	600
U	Below windows or openings on pitched roofs	2000



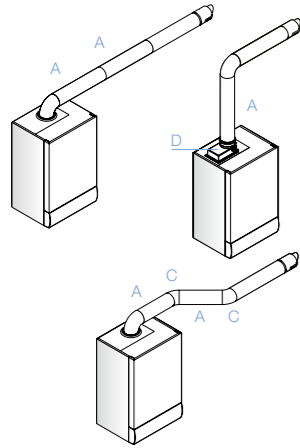
- In addition, the terminal should be no nearer than 150mm to an opening in the building fabric formed for the purpose of accommodating a built-in element such as a window frame.
- Only ONE 25mm clearance is allowed per installation. If one of the dimensions D, E, F, G or H is 25mm then the remainder MUST be as B.S.5440-1.



\*This can be reduced to 25mm by using item 6/7/8 flue deflector.

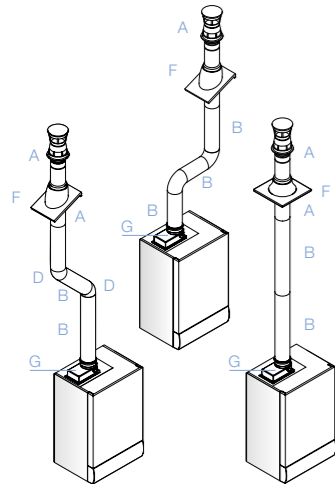


### Horizontal concentric flues 70/110mm – Flue Group B



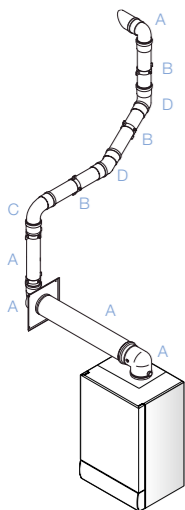
Item description (Multifit) flue system B	Specification	Key & OD dimensions	Multifit sales code
Standard horizontal flue inc elbow	850mm	110mm	236921
Horizontal flue/wall terminal	850mm	110mm	243013BAX
A Flue extension	1000mm	110mm	241695
A Flue extension	500mm	110mm	241694
A Flue extension	250mm	110mm	241692
B Flue bend	90°	110mm	241687
C Flue bend (pair)	135°	110mm	241689
Flue terminal deflector		70mm	248167
D Vertical flue adaptor (boiler)		110mm	5106888
Pipe support	Painted white	110mm	243014BAX

### Vertical concentric flues 70/110mm – Flue Group B



Item description (Multifit) flue system B	Specification	Key & OD dimensions	Multifit sales code
A Vertical roof terminal		110mm	242802
B Flue extension	1000mm	110mm	241695
B Flue extension	500mm	110mm	241694
B Flue extension	250mm	110mm	241692
C Flue bend	90°	110mm	241687
D Flue bend (pair)	135°	110mm	241689
Roof cover plate			243131
Pipe support	Painted white	110mm	243014BAX
E Flat roof flashing			243016BAX
F Pitched roof flashing	25/50°		243015
G Vertical flue adaptor (boiler)		110mm	5106888

### Plume displacement 70/100mm concentric to 70mm PDK – Flue Group L



Item description (Multifit) flue system L	Specification	Key & OD dimensions	Multifit sales code
A Plume displacement kit inc elbow and clips		110mm	5121371
B Plume displacement kit extension inc clip	1000mm	70mm	5121372
C Plume displacement kit bend	93°	70mm	5121373
D Plume displacement kit bend (pair)	135°	70mm	5121374

## Optional accessories and controls

### Electro-mechanical timer



### Programmable 24hr wireless sensor



### Electronic timer



### Programmable 7 day wireless sensor



### Wireless timer room thermostat



### Wired weather sensor kit



### Wireless digital timer room thermostat



### Multifit GasSaver





## Controls and accessories compatibility

Product	Sales code	Compatibility				
		Combi	Ultra	System	Heat only	Store
Integral 24hr electro-mechanical timer	247206	•				
Integral 7 day electronic	247207	•				
EP1 programmer	7211472			•	•	
EP2 programmer	7211473			•	•	
Single channel wireless programmable room thermostat	5117392	•				
Programmable 7 day wireless sensor (2 channel)	720644801		•			
Programmable 24hr wireless sensor (single channel)	720644901		•			
Potterton RF digital 7 day programmable roomset (wireless)	720030601	•				
Multifit Outdoor Sensor Kit	720330001	•	•			
Filling loop kit	248221	•		•		
Stand off kit (facilitates vertical pipe runs behind boiler)	5117035	•	•	•		
Multifit gas saver (natural gas)	720056901	•	•	•		
Multifit (gas saver) expansion vessel kit	720066401	•	•	•		
Gas saver - stand off kit	720079701	•	•	•		
Multifit condensate trace heating kit 1m	72644401	•	•	•	•	•
Multifit condensate trace heating kit 2m	72664101	•	•	•	•	•
Multifit condensate trace heating kit 3m	720664201	•	•	•	•	•
Multifit condensate trace heating kit 5m	720664401	•	•	•	•	•
Multifit external boiler discharge pump (prv and condensate)	720648301	•	•	•	•	•
Terminal guard	248484				•	
Terminal guard Ø 60/100	720627901	•	•	•		•
Stainless steel PDK guard Ø 60/100 - air intake S/S	720644601	•	•	•		•

### Note

i) Heatsaver (720721001) is compatible with Promax Combi 24, 28 & 33kW models only

ii) Potterton RF Digital 7 day programmable roomstat (wireless) 720030601 is compatible with Promax Combi 24, 28 & 33kW models only

## Solar and cylinders



### Potterton Solar

The Potterton Solar range uses the latest, cutting edge technology to bring you a renewable energy hot water solution which is energy efficient, environmentally friendly and easy to use.

With options available for both new and existing properties the Potterton Solar range provides around 90% of a family's hot water requirements during the summer and around 55% annually.

Our system enables you to use solar energy for heating water without compromising on energy efficiency, the environment or reliability. What's more, you can trust Potterton Solar to deliver the long-term savings that make renewable energy desirable.



### Santon PremierPlus cylinder

PremierPlus Solar has been designed specifically for Potterton Solar Systems. It offers all of the benefits of the standard PremierPlus unvented cylinder to give powerful mains pressure showering and fast filling baths, with the added benefit of lower running costs - as much as 60% less than traditional systems\*

PremierPlus Solar is an environmentally friendly and efficient way of providing domestic hot water. Unlike some other 'twin coil' cylinders (which simply use heating coils designed for traditional boiler heated cylinders), PremierPlus Solar cylinders have a purpose designed solar heating coil at the base of the cylinder, which ensures maximum heat input and efficiency from the solar energy.

Available in 170-300 litre capacities, with a choice of direct (Electric auxiliary heat input) or indirect (gas, oil or electric boiler auxiliary heat input) versions.

\* savings vary depending on type of solar system used, location and usage patterns.





## Case study.

### Potterton Promax is boiler of choice for Doncaster Social Housing overhaul

As part of a complete refurbishment of social housing in Doncaster, St Leger Homes was looking for a strategic partner to help it cost-effectively install new heating systems in thousands of council-owned properties.

Potterton was able to deliver a value-for-money solution to St Leger Homes which simplified installation, repair and maintenance and supported them with market leading aftersales care from its award-winning service division.

St Leger Homes has installed almost 4,000 Potterton Promax Combi boilers in the last three years. They have replaced ageing combi boilers, like for like, and they have also been used to replace back boilers.

**David Norman, Mechanical and Electrical Manager at St Leger Homes said:**

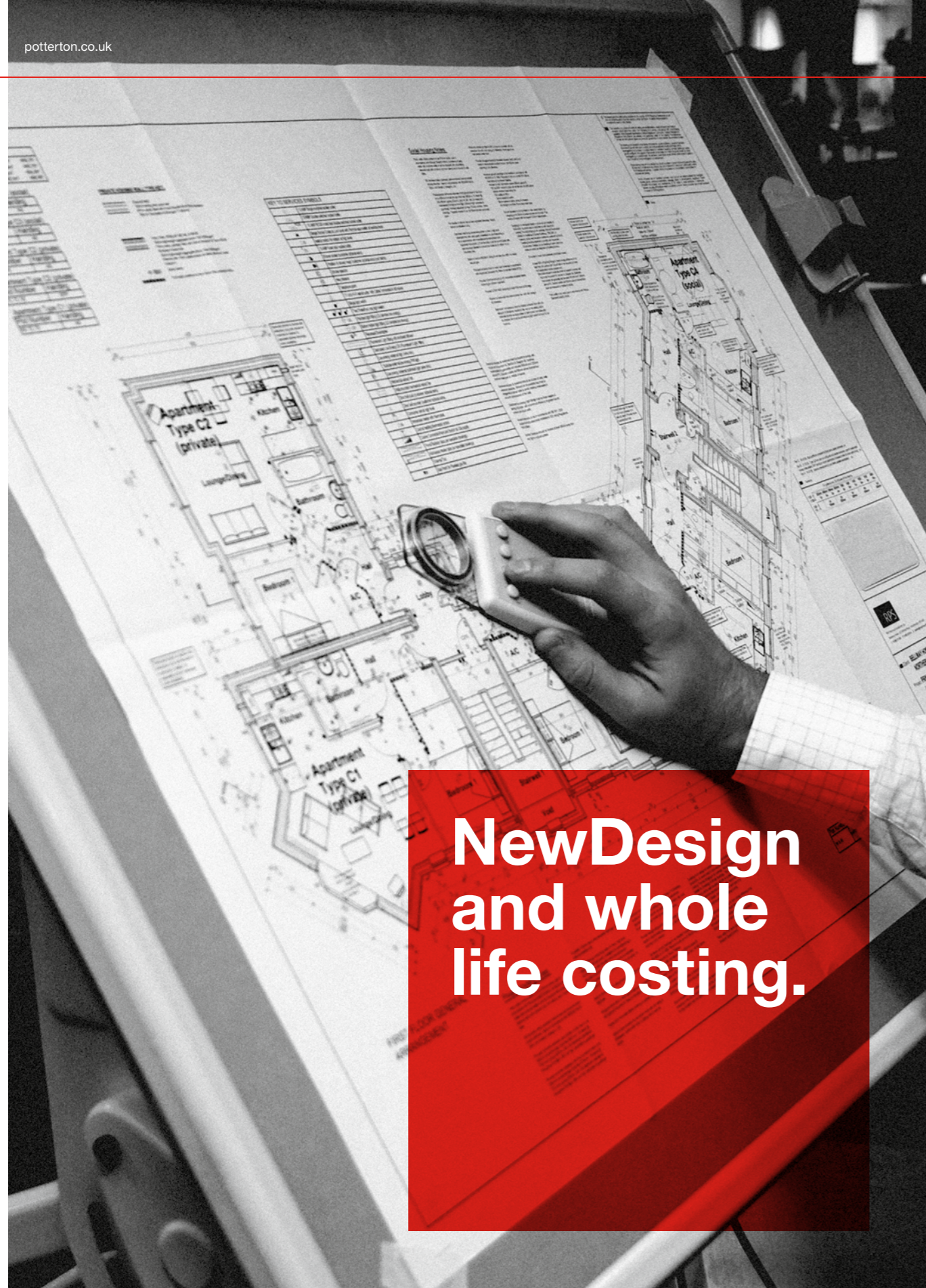
*"We look after 21,000 homes in the Doncaster area, and as part of the Decent Homes refurbishment scheme, a large number of these properties required improvements to their heating system. With the volume of units involved and the associated installation costs to fit each one, we needed a strategic partner who would be able to offer value for money as well as help us get the boilers installed quickly and efficiently."*

*To really cement the strategic partnership, Potterton has excelled in its aftersales care and support for us. Our installers were given free technical training to ensure each boiler that goes into one of our properties works at its best and that tenants are given the right information about how to use their new heating system to reduce their energy bills. We have also been given direct access to the company's Customer Support team. This is really important for us as we have target times to respond to maintenance issues, so if there's a boiler fault that requires an engineer and it's under warranty, we can call before 3pm and get someone out the next day - guaranteed."*

**Bill Jones, Sales Director, Potterton, said:**

*"Our partnership with St Leger Homes really shows off our strengths in the social housing market. We have reliable products, at the right price, all backed up with a service that leads the industry and makes our customers feel valued and supported. It's about making life easier for specifiers, service providers and tenants alike."*





**NewDesign  
and whole  
life costing.**



**NewDesign**

Our NewDesign team provides a complete design service for residential developments that incorporate our heating and hot water products, including low carbon technologies. System designs are fully indemnified, in accordance with legislative requirements and recognise good practice standards.

Design layouts are generated using the latest computer software and can be issued in either hard copy or electronic format.

NewDesign is able to work with SAP assessors and other technical parties to help you meet your carbon or energy targets.

**Whole life costing**

It pays to plan ahead. Our whole life costing model helps you to analyse all the costs and revenues associated with installing a Potterton boiler. Then you can set accurate, realistic budgets for its operation, maintenance and repair.

**Talk to your local  
representative  
for more information**



## Support you can depend on

Potterton is part of Baxi, meaning it benefits from our extensive customer support services. Whatever you need, our expert support is never more than a phone call away.



### Customer support

We will provide expert support, whenever you need it, from the very start of your project, through installation and commissioning, and then for the lifetime of the boilers.

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Dedicated, knowledgeable specification and new build teams

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UK customer contact centre and a nationwide network of Gas Safe registered engineers

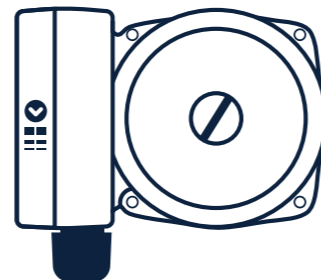
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Technical helpline provides expert technical support and advice

**Call: 0344 871 1545**

#### Opening hours

Monday – Friday, 8.00am – 6.00pm  
Weekends and bank holidays,  
8.30am – 2.00pm  
We are closed on Christmas Day  
and New Year's Day.



### Genuine parts

Baxi Genuine Parts offers an extensive range of components, consumables, safety devices and tools.

We can provide everything you need for installation, maintenance and annual servicing.

---

Available through a nationwide network of approved stockists

---

Lifetime support for Potterton products

---

Parts available for 10 years after manufacture of boilers ceases

---

Find a genuine part or your nearest stockist: [www.baxigenuineparts.co.uk](http://www.baxigenuineparts.co.uk)



### Training

We run courses at training centres throughout the UK. Our expert trainers will tailor the courses to suit your individual requirements, so you can install, service and maintain Potterton boilers with confidence.

---

Free of charge hands-on product training

---

Expert trainers, all accredited, experienced former heating engineers

---

Training centres across the UK

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On-site training and support can be arranged

To book your place on a Potterton training course call:  
**0845 600 7401**

### Carbon Monoxide

Safety is our highest priority, so we recommend the use of an audible carbon monoxide alarm whenever a boiler, or other carbon burning appliance, is installed.

---

Make sure it is marked with British Standard EN 50291 and the Kitemark

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Fitting a carbon monoxide alarm is not a substitute for an annual service



Brooks House  
Coventry Road  
Warwick  
CV34 4LL

sales 0344 871 1560  
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