# Potterton 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

**Totally dependable.**

POTTERTON

# Contents

**Totally dependable.**

# Welcome

We've been a leading player in the heating industry since 1850. By making dependable products backed by trusted service, our success is built on customer satisfaction. You can rely on us at every stage of your project: from design and tender to installation, commissioning, handover and beyond. Whatever the size of the application, we're always here to help.

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.

Potterton – totally dependable.

**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.

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.

## Performance

We understand that consistent performance is vital. That's why we ensure all our products exceed customer needs – for capability, reliability and efficiency.

## Service excellence

We're committed to delivering the highest standards of customer service possible. How? By supporting our customers every step of the way.

## Engineering quality

We pride ourselves on offering great value solutions, but that doesn't mean we compromise on our technology, design and components.
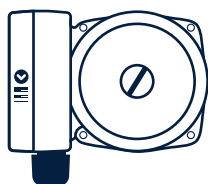
## Genuine parts

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.

**A** Efficiency Rating

**2** TWO YEAR WARRANTY

ErP Compliant
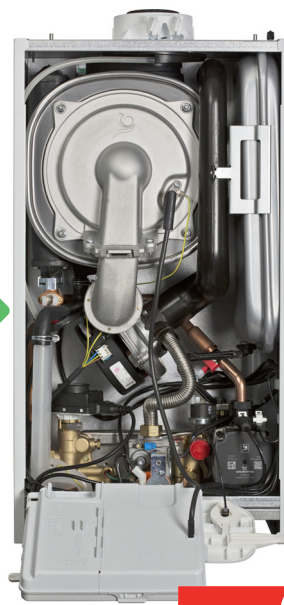
# Assure Combi

The Potterton Assure Combi is designed for social housing. Its many smart features make installation and maintenance faster, easier and more efficient.

**25kW and 30kW**

Outputs

**29kg**

Installer lift weight

**Front access to components**

Easier to service
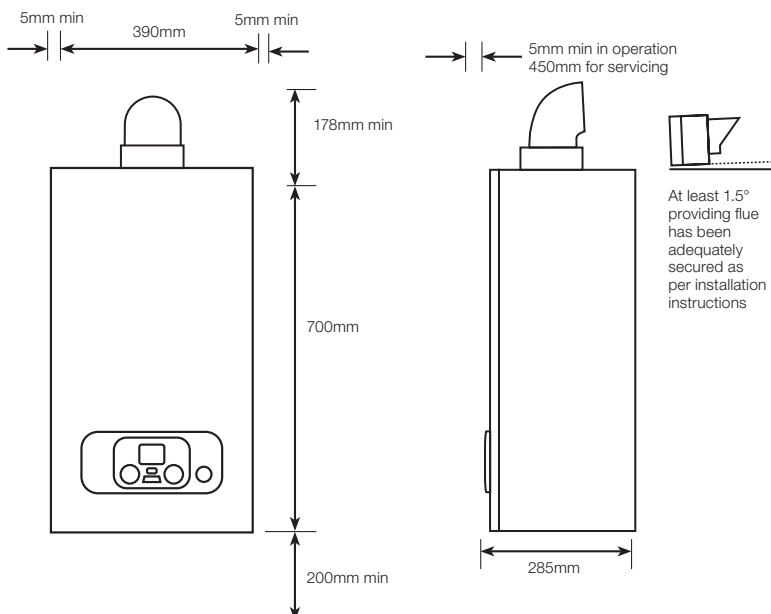
# Features and benefits

| Features | Benefits |
| --- | --- |
| Outputs: 25kW and 30kW | To suit most property sizes |
| Compact cupboard fit | Can be installed discreetly |
| Lightweight | 29kg lift weight |
| Front access to all components | Saves time when servicing, allowing for ease of maintenance and repair |
| Fully modulating and highly efficient | Boiler intelligently uses the right amount of fuel to meet the set central heating temperatures, saving money on fuel bills |
| Central flue | For ease of siting |
| Flueing options of up to 20m | Allowing greater flexibility of siting |
| Optional outdoor weather sensor available | Enhances system control and customer comfort |
| Ease of service | No special tools or replacement seals required for standard service |
| Pipes behind facility within boiler casing | Save time, space and money by piping behind within the footprint of the appliance |
| Clean aesthetic finish | Boiler casing hides system connections for cleaner finish |
| Built in drip tray | Protection against water ingress in extreme weather conditions |
| Optional Safety Assist available | Ability to protect vulnerable residents by locking controls |
| Vertical packaging | Allows for ease of access to all installation accessories from top of the packaging |

# Dimensions



5mm min
390mm
5mm min
5mm min in operation
450mm for servicing
178mm min
700mm
200mm min
285mm

At least 1.5° providing flue has been adequately secured as per installation instructions

# Controls and Accessories

## These accessories are available for the Assure Combi

| | |
| --- | --- |
| Potterton EP Series 1 | 7211472 |
| Baxi single channel wired programmable room thermostat | 7212438 |
| Baxi Room thermostat | 720971601 |
| Multifit wired outdoor sensor-combi | 7686478 |
| Multifit pre-plumb jig | 7682545 |
| Multifit rear pipework kit | 7682790 |
| Remote Secondary Prv Kit | 5121379 |
| Filling Loop Kit | 248221 |
| Multifit Safety Assist | 7683088 |
| Multifit-Condensate Antifreezing Kit-1m | 720644401 |
| Multifit-Condensate Antifreezing Kit-2m | 720664101 |
| Multifit-Condensate Antifreezing Kit-3m | 720664201 |
| Multifit-Condensate Antifreezing Kit-5m | 720664401 |
| Multifit External Condensate/Prv Pump | 720648301 |



**7211472**
Potterton EP Series 1

**7212438**
Baxi single channel wired programmable room thermostat

**720971601**
Baxi Room thermostat

**7686478**
Multifit wired outdoor sensor-combi

# Technical information

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

## Potterton Assure Combi

| | Units | 25 | 30 |
|---|---|---|---|
| Sales code | | 7658129 | 7658130 |

### Controls

| | | 25 | 30 |
|---|---|---|---|
| Concealed user controls | | No | No |
| Reset switch | | Yes | Yes |
| User adjustable DHW temperature | | Yes | Yes |
| User adjustable CH temperature | | Yes | Yes |
| LED temp/status/fault diagnosis display | | Yes | Yes |
| Integral 24hr electro-mechanical timer | | No | No |

### Gas

| | | 25 | 30 |
|---|---|---|---|
| Natural gas | | Yes | Yes |
| Nominal inlet supply pressure | mbar | 20 | 20 |
| Maximum gas rate | m³/h | 2.71 | 3.26 |
| Propane LPG | | No | No |
| Heat input central heating (CH) | kW Max Gross(QnHs) | 22.86 | 28.58 |
| | kW Min Gross(QnHs) | 6.87 | 6.87 |
| Heat output CH non-condensing | kW Max (Pn) | 20.00 | 25.00 |
| | kW min (Pn) | 6.20 | 6.20 |
| Heat output CH condensing | kW max (Pnc) | 21.16 | 26.33 |
| | kW min (Pnc) | 6.70 | 6.70 |
| Heat input domestic hot water | kW Max Gross (QnwHs) | 25.00 | 30.00 |
| Heat output domestic hot water | kW Max (Pn) | 25.77 | 30.93 |
| Maximum domestic hot water flow rate | l/min @ 30°C rise | 12 | 14.3 |

### ErP product information

| | | 25 | 30 |
|---|---|---|---|
| NOx | mg/kWh | 29.7 | 28.3 |
| Space heating efficiency class | | A | A |
| Water heating declared load profile | | XL | XL |
| Water heating efficiency class | | A | A |

### Electrical

| | | 25 | 30 |
|---|---|---|---|
| Electrical supply | Volts/Hz | 230/50 | 230/50 |
| Permanent live required | | Yes | Yes |
| Fitted electrical cable | | No | No |
| Power consumption | Watts | 100 | 100 |
| External fuse rating | Amps | 3 | 3 |
| Internal fuse rating | Amps | F2AH250V | F2AH250V |
| Ingress protection rating | | IPX5D | IPX5D |
| Integral 'boiler only' frost thermostat | | Yes | Yes |

| | Units | 25 | 30 |
|---|---|---|---|
| **Mechanical** | | | |
| Pre-plumbing/wall mounting jig (optional accessory) | | Yes | Yes |
| Isolating valves | | Yes | Yes |
| Gas supply connection | mm | 22 | 22 |
| Central heating connections | mm | 22 | 22 |
| Domestic hot water connections | mm | 15 | 15 |
| Condensate drain connection | mm | 21.50 | 21.50 |
| Safety discharge connection | mm | 15 | 15 |
| Saftey discharge pressure | bar | 3 | 3 |
| Temporary filling loop included | | No | No |
| **Hydraulic** | | | |
| Domestic hot water output (raised 35°C) (max) | l/min | 10.2 | 12.2 |
| Domestic hot water operating flow rate (min) | l/min | 2.00* | 2.00* |
| Domestic hot water operating pressure (min) | bar | 0.5 | 0.5 |
| Domestic hot water system pressure (max) | bar | 8 | 8 |
| CH safety discharge pressure | bar | 3 | 3 |
| Integral automatic bypass | | Yes | Yes |
| Integral expansion vessel capacity | litres | 7 | 7 |
| Max capacity of central heating system | litres | 120 | 120 |
| Compartment ventilation requirement | | No | No |
| CH system inhibitor required | | Yes | Yes |
| 24 hour pump exercise | | Yes | Yes |
| Pump overrun | | Yes | Yes |
| **Concentric flue systems** | | | |
| Concentric flue diameters | mm | 60/100 and 80/125 | |
| Standard horizontal flue kit length  (60/100mm) | mm | 685 | 685 |
| Max equiv length horizontal/vertical  (60/100mm) | m | 10 | 10 |
| Max equiv length horizontal/vertical  (80/125mm) | m | 20 | 20 |
| Equivalent length per 135° bend | m | 0.50 | 0.50 |
| Equivalent length per 93° bend | m | 1.00 | 1.00 |
| **Weights** | | | |
| Max installation lift weight | kg | 29 | 29 |
| Gross packaged boiler weight | kg | 32 | 32 |

*Where low flow taps or fittings are intended to be used in the DHW system connected it is strongly recommended that the DHW flow rate DOES NOT fall below 2.5 l/min. This will ensure reliable operation of DHW function

**A**
Efficiency Rating

**2**
TWO YEAR WARRANTY

**ErP**
Compliant
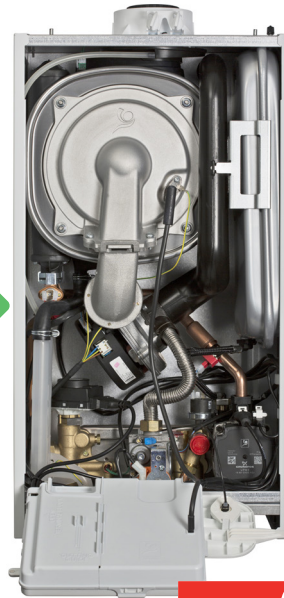
# Assure System

The Potterton Assure System is designed for social housing. Its many smart features make installation and maintenance faster, easier and more efficient.

**15kW and 18kW**

Outputs

**28kg**

Installer lift weight

**Compact cupboard fit**

Can be installed in a 290mm deep cupboard

# Features and benefits

| Features | Benefits |
|---|---|
| Outputs: 15kW and 18kW | To suit most property sizes |
| Compact cupboard fit | Can be installed discreetly |
| Lightweight | 28kg lift weight |
| Front access to all components | Saves time when servicing, allowing for ease of maintenance and repair |
| Fully modulating and highly efficient | Boiler intelligently uses the right amount of fuel to meet the set central heating temperatures, saving money on fuel bills |
| Compatible with | Great fuel savings for hot water - all available from one manufacturer |
| Central flue | For ease of siting |
| Flueing options of up to 20m | Allowing greater flexibility of siting |
| Optional outdoor weather sensor available | Enhances system control and customer comfort |
| Ease of service | No special tools or replacement seals required for standard service |
| Pipes behind facility within boiler casing | Save time, space and money by piping behind within the footprint of the appliance |
| Built in drip tray | Protection against water ingress in extreme weather conditions |
| Vertical packaging | Allows for ease of access to all installation accessories from top of the packaging |
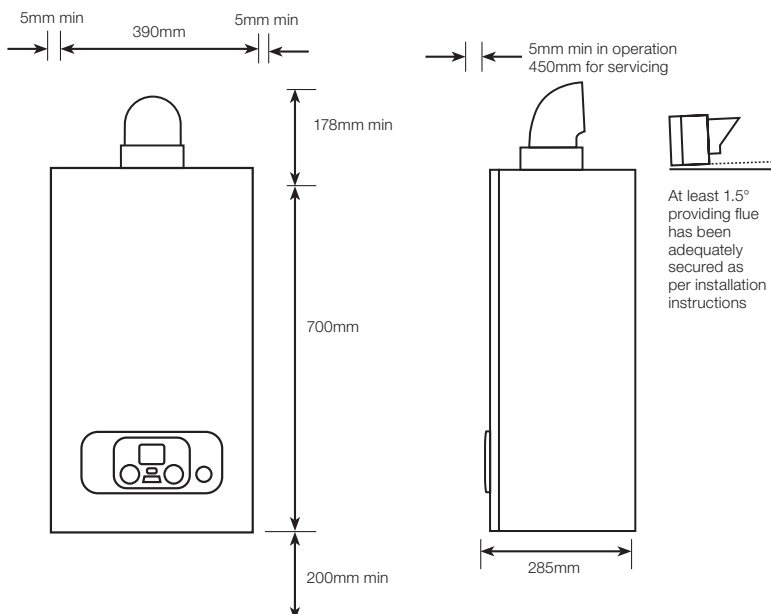
## Controls and Accessories

### These accessories are available for the Assure System

| | |
|---|---|
| Potterton EP Series 2 | 7211473 |
| 2 Channel Wired Programmer Kit | 7212443 |
| Baxi Room thermostat | 720971601 |
| Multifit wired outdoor sensor-system | 7683087 |
| Multifit pre-plumb jig | 7682545 |
| Multifit rear pipework kit | 7682790 |
| Remote Secondary Prv Kit | 5121379 |
| Multifit-Condensate Antifreezing Kit-1m | 720644401 |
| Multifit-Condensate Antifreezing Kit-2m | 720664101 |
| Multifit-Condensate Antifreezing Kit-3m | 720664201 |
| Multifit-Condensate Antifreezing Kit-5m | 720664401 |
| Multifit External Condensate/Prv Pump | 720648301 |



**7211473**
Potterton EP Series 2



**7212443**
2 Channel Wired Programmer Kit



**720971601**
Baxi Room thermostat



**7683087**
Multifit wired outdoor sensor-system

## Dimensions



5mm min
390mm
5mm min
178mm min
700mm
200mm min
5mm min in operation
450mm for servicing
At least 1.5° providing flue has been adequately secured as per installation instructions
285mm

# Technical information

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

## Potterton Assure System

| | Units | 15 | 18 |
|---|---|---|---|
| Sales code (boiler only) | | 7658127 | 7658128 |

### Controls

| | | | |
|---|---|---|---|
| Concealed user controls | | No | No |
| Reset switch | | Yes | Yes |
| User adjustable CH temperature | | Yes | Yes |
| LED operating status display | | Yes | Yes |

### Gas

| | | | |
|---|---|---|---|
| Natural Gas | | Yes | Yes |
| Nominal inlet supply pressure | mbar | 20 | 20 |
| Maximum gas rate | m³/hr | 1.64 | 1.96 |
| Heat input central heating (CH) | kW max gross (QnHs) | 17.16 | 20.60 |
| | kW min gross (QnHs) | 5.15 | 5.15 |
| Heat output CH non-condensing | kW max (Pn) | 15.00 | 18.00 |
| | kW min (Pn) | 4.50 | 4.50 |
| Heat output CH condensing | kW max (Pnc) | 16.39 | 19.62 |
| | kW min (Pnc) | 4.85 | 4.85 |

### ErP product information

| | | | |
|---|---|---|---|
| NOx | mg/kWh | 31.4 | 32.6 |
| Sound power level, indoors | $L_{WA}$ dB | 48 | 51 |
| Space heating efficiency class | | A | A |

### Electrical

| | | | |
|---|---|---|---|
| Electrical supply | Volts/Hz | 230/50 | 230/50 |
| Permanent live required | | Yes | Yes |
| Switched live | | Yes | Yes |
| Electrical power cable fitted as standard | | No | No |
| Power consumption | Watts | 46 | 56 |
| External fuse rating | Amps | 3 | 3 |
| Internal fuse rating | | F2HA250V | F2HA250V |
| Boiler IP rating (electrical protection) | Approval category | IPX5D | IPX5D |
| Integral 'boiler only' frost thermostat | | Yes | Yes |
| Pump overrun | | Yes | Yes |

| | Units | 15 | 18 |
|---|---|---|---|
| **Mechanical** | | | |
| Wall mounting jig | | Yes | Yes |
| Isolating valves | | Yes | Yes |
| Gas supply connection | mm | 22 | 22 |
| Central heating connections | mm | 22 | 22 |
| Condensate drain connection | mm | 21.5 | 21.5 |
| Safety discharge connection | mm | 15 | 15 |
| **Hydraulic** | | | |
| Safety discharge pressure | bar | 3 | 3 |
| Integral automatic bypass | | Yes | Yes |
| Integral expansion vessel | litres | 7 | 7 |
| Maximum capacity of CH system | litres | 120 | 120 |
| Compartment ventilation required | | No | No |
| Compartment ventilation required | | Yes | Yes |
| 24hr pump exercise | | Yes | Yes |
| Pump overrun | | 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 |
| Maximum equivalent vertical length (ø 60/100) | m | 10 | 10 |
| Maximum equivalent vertical length (ø 80/125) | m | 20 | 20 |
| Equivalent length per 135° bend | m | 0.50 | 0.50 |
| Equivalent length per 93° bend | m | 1 | 1 |
| **Weights** | | | |
| Gross packaged boiler weight | kg | 30.6 | 30.6 |
| Maximum installation lift weight | kg | 28.06 | 28.06 |

**A**
Efficiency Rating

**2**
TWO
YEAR
WARRANTY

**ErP**
Compliant

# Assure Heat

The Potterton Assure Heat is, at only 19.5kg, the lightest boiler available on the UK market** It has a rear and central flue option and does not need a pump overrun or permanent live, making it suitable as a replacement for old boilers.

**13kW to 30kW**

Outputs

**19.5kg**

Installer lift weight
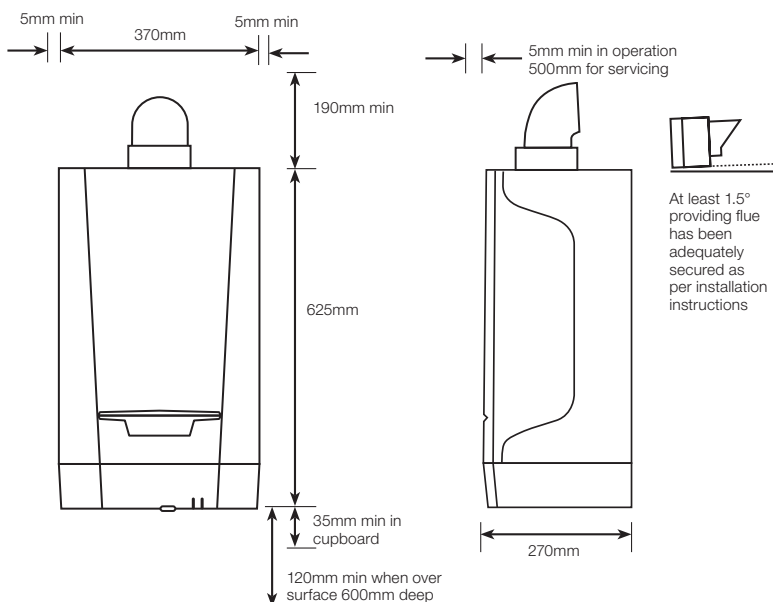
**270mm deep**

Cupboard fit

# Features and benefits

| Features | Benefits |
|---|---|
| Outputs: 13kw, 16kW, 19kW, 25kW and 30kW | To suit most property sizes |
| Only 19.5kg installer lift weight | The lightest boiler available in UK** |
| Cupboard fit | Can be installed discreetly |
| Easy fit wall mounting bracket | Robust with a positive fix and audible lock so you know it's secure |
| One metre lead included | Easy to install and you don't need access to the control box |
| Top or rear central flue | For reduced boiler footprint and improved look |
| Simple fixing of rear flue | For easy and fail-safe flue fixing |
| No pump overrun or permanent live required | Saves time and money during installation, and less disruption for the house holder |
| Front and side access | Servicing is easier and quicker, and no special tools are required |
| Flueing options of up to 12m | Allowing for greater flexibility of siting |
| Vertical packaging | Allows for ease of access to all installation accessories from top of the packaging |

** As at June 2014.

## Dimensions

5mm min  370mm  5mm min

5mm min in operation
500mm for servicing

190mm min

625mm

At least 1.5° providing flue has been adequately secured as per installation instructions

35mm min in cupboard

120mm min when over surface 600mm deep

270mm

# Controls and Accessories

## These accessories are available for the Assure Heat

| | |
|---|---|
| Potterton EP Series 2 | 7211473 |
| 2 Channel Wired Programmer Kit | 7212443 |
| Baxi Room thermostat | 720971601 |
| Multifit-Condensate Antifreezing Kit-1m | 720644401 |
| Multifit-Condensate Antifreezing Kit-2m | 720664101 |
| Multifit-Condensate Antifreezing Kit-3m | 720664201 |
| Multifit-Condensate Antifreezing Kit-5m | 720664401 |
| Multifit External Condensate/Prv Pump | 720648301 |

**7211473**
Potterton EP Series 2

**7212443**
2 Channel Wired Programmer Kit

**720971601**
Baxi Room thermostat

# Technical information

## The Potterton Assure Heat is compatible with Flue Group A

## Potterton Assure Heat

|  | Units | 13 | 16 | 19 | 25 | 30 |
|---|---|---|---|---|---|---|
| Sales code (boiler only) |  | 7668937 | 7668938 | 7668939 | 7668940 | 7668941 |

### Controls

|  | Units | 13 | 16 | 19 | 25 | 30 |
|---|---|---|---|---|---|---|
| Operating mode selector switch with reset |  | Yes | Yes | Yes | Yes | Yes |
| User adjustable CH temperature |  | Yes | Yes | Yes | Yes | Yes |
| LED temp/status/fault diagnosis display |  | Yes | Yes | Yes | Yes | Yes |

### Gas

|  | Units | 13 | 16 | 19 | 25 | 30 |
|---|---|---|---|---|---|---|
| Gas (natural gas/LPG) |  | NG | NG | NG | NG | NG |
| Inlet supply pressure | mbar | 20 | 20 | 20 | 20 | 20 |
| SAP 2009 annual efficiency (PCDB/SEDBUK) | % | 89.2 | 89.2 | 89.2 | 89.1 | 89.1 |
| Heat input CH | kW max gross (QnHs) | 14.88 | 18.32 | 21.75 | 28.62 | 34.35 |
|  | kW min gross (QnHs) | 8.59 | 8.59 | 8.59 | 8.59 | 8.59 |
| Heat output CH (non condensing) | kW max (Pn) | 13 | 16 | 19 | 25 | 30 |
|  | kW min (Pn) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Inlet supply pressure (natural gas) | mbar | 20 | 20 | 20 | 20 | 20 |
| Maximum gas rate | $m^3$/hr | 1.42 | 1.75 | 2.07 | 2.73 | 3.27 |

### ErP product information

|  | Units | 13 | 16 | 19 | 25 | 30 |
|---|---|---|---|---|---|---|
| NOx | mg/kWh | 18 | 20 | 21 | 24 | 24 |
| Sound power level, indoors | $L_{WA}$ dB | 32 | 33 | 34 | 37 | 37 |
| Space heating efficiency class |  | A | A | A | A | A |

### Electrical

|  | Units | 13 | 16 | 19 | 25 | 30 |
|---|---|---|---|---|---|---|
| Electrical supply | volts/Hz | 230/50 | 230/50 | 230/50 | 230/50 | 230/50 |
| Permanent live required |  | No | No | No | No | No |
| Switched live |  | Yes | Yes | Yes | Yes | Yes |
| Electrical power cable fitted as standard, 1m of 3 core |  | Yes | Yes | Yes | Yes | Yes |
| Power consumption | Watts | 17 | 20 | 23 | 33 | 44 |
| External fuse rating | Amps | 3 | 3 | 3 | 3 | 3 |
| Internal fuse rating |  | 1.6T | 1.6T | 1.6T | 1.6T | 1.6T |
| Boiler IPX rating (electrical protection) | Approval category | IPX4D | IPX4D | IPX4D | IPX4D | IPX4D |
| Pump overrun |  | No | No | No | No | No |

| | Units | 13 | 16 | 19 | 25 | 30 |
|---|---|---|---|---|---|---|

## Mechanical

| | Units | 13 | 16 | 19 | 25 | 30 |
|---|---|---|---|---|---|---|
| Gas supply connection | mm | 22 | 22 | 22 | 22 | 22 |
| Central heating connections | mm | 22 | 22 | 22 | 22 | 22 |
| Condensate drain connection | mm | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| Upward piping route | mm | Yes | Yes | Yes | Yes | Yes |
| Flow / return pipe size | mm | 22 | 22 | 22 | 22 | 22 |

## Hydraulic

| | | 13 | 16 | 19 | 25 | 30 |
|---|---|---|---|---|---|---|
| Compartment ventilation required | | No | No | No | No | No |

## Concentric flue systems

| | | Units | 13 | 16 | 19 | 25 | 30 |
|---|---|---|---|---|---|---|---|
| Standard telescopic concentric flue length | | mm | | 315 - 500 | | | |
| Standard in-case rear telescopic concentric flue | | mm | | 220 - 345 | | | |
| Horizontal concentric (60/100 mm) | Max equivalent length | m | 6 | 6 | 6 | 6 | 6 |
| | Reduction per 135° bend | m | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| | Reduction per 93° bend | m | 1 | 1 | 1 | 1 | 1 |
| Horizontal concentric (80/125 mm) | Max equivalent length | m | 12 | 12 | 12 | 12 | 12 |

## Twin pipe flue system

| | | Units | 13 | 16 | 19 | 25 | 30 |
|---|---|---|---|---|---|---|---|
| Horizontal twin tube (80/80mm) | Max equivalent length (both tubes in parallel) | m | 9 | 9 | 9 | 9 | 9 |
| | Reduction per 135° bend | m | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| | Reduction per 93° bend | m | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |

## Weights

| | Units | 13 | 16 | 19 | 25 | 30 |
|---|---|---|---|---|---|---|
| Gross packaged boiler weight | kg | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 |
| Maximum installation lift weight | kg | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 |

A
Efficiency Rating

A*
Efficiency Rating

**TWO YEAR WARRANTY 2**

ErP Compliant
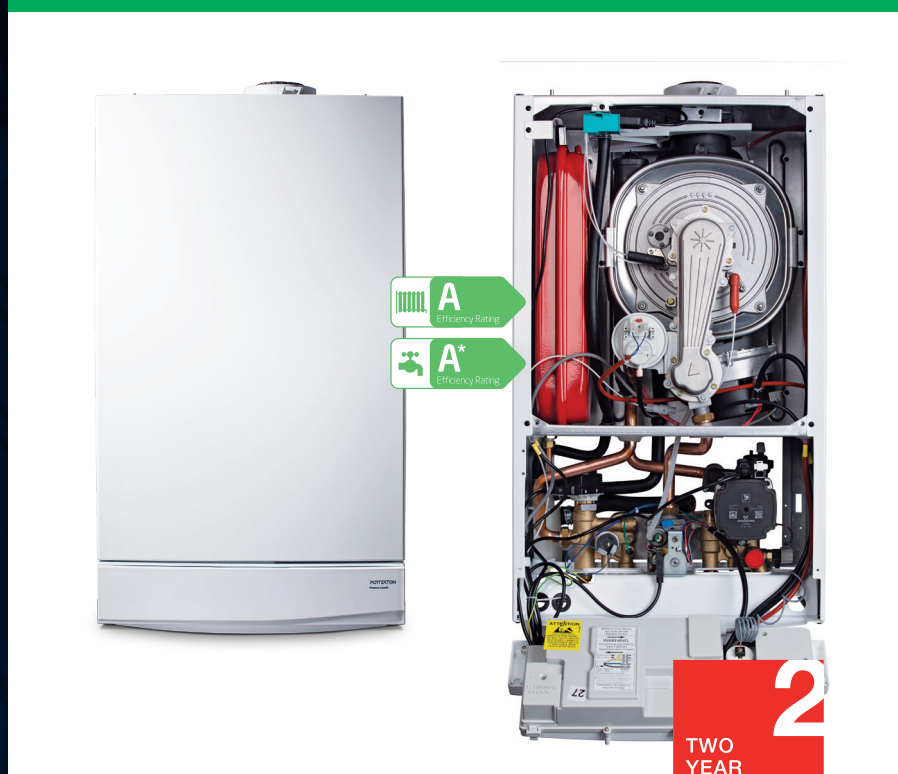
# Promax Combi

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

## Controls and Accessories

### Features / 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 |
| 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 |
| Filling Loop included in the box | For ease of filling and topping up the system |
| Vertical packaging | Allows for ease of access to all installation accessories from top of the packaging |
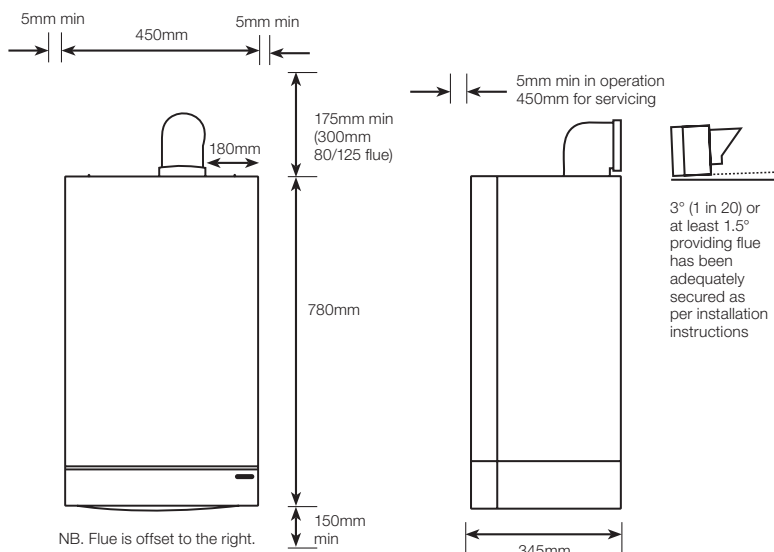
### These accessories are available for the Promax Combi

| | |
|---|---|
| Potterton EP Series 1 | 7211472 |
| Integral 24hr Electro-mechanical Timer | 247206 |
| Integral 7 Day Electronic Timer | 247207 |
| Potterton 24hr Wireless Programmable Room Thermostat (Single Channel) | 5117392 |
| Baxi Electromechanical 2hr timer kit (surface mount) | 7209714 (01) |
| Baxi Room thermostat | 720971601 |
| RF Digital 7 Day Programmable Roomstat | 720030601 |
| Multifit Outdoor Sensor Kit | 720330001 |
| Stand Off Kit | 5117035 |
| Remote Secondary Prv Kit | 5121379 |
| Filling Loop Kit | 248221 |
| Multifit-Condensate Antifreezing Kit-1m | 720644401 |
| Multifit-Condensate Antifreezing Kit-2m | 720664101 |
| Multifit-Condensate Antifreezing Kit-3m | 720664201 |
| Multifit-Condensate Antifreezing Kit-5m | 720664401 |
| Multifit External Condensate/Prv Pump | 720648301 |

## Dimensions



5mm min
450mm
5mm min
175mm min (300mm 80/125 flue)
180mm
5mm min in operation 450mm for servicing
3° (1 in 20) or at least 1.5° providing flue has been adequately secured as per installation instructions
780mm
150mm min
NB. Flue is offset to the right.
345mm

7211472
Potterton EP Series 1

247206
Integral 24hr electro-mechanical timer

247207
Integral 7 day electronic

5117392
Single channel wireless programmable room thermostat

# 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 | m³/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 |
| Maximum domestic hot water flow rate | l/min @ 30°C rise | 11.43 | 13.3 | 15.7 |
| Maximum domestic hot water flow rate | l/min @ 35°C rise | 9.8 | 11.5 | 13.5 |
| SAP 2009/2012 annual efficiency (PCDB/SEDBUK) | % | 89.0 | 89.0 | 88.9 |

### ErP product information

| | | | | |
|---|---|---|---|---|
| NOx | mg/kWh | 20 | 23 | 20 |
| Sound power level, indoors | $L_{WA}$ 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 |

| | Units | 24 | 28 | 33 |
|---|---|---|---|---|

## 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 | | Yes | Yes | Yes |

## Hydraulic

| | Units | 24 | 28 | 33 |
|---|---|---|---|---|
| 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

| | Units | 24 | 28 | 33 |
|---|---|---|---|---|
| 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

| | Units | 24 | 28 | 33 |
|---|---|---|---|---|
| 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

| | Units | 24 | 28 | 33 |
|---|---|---|---|---|
| Gross packaged boiler weight | kg | 45.5 | 45.5 | 47 |
| Maximum installation lift weight | kg | 40.2 | 40.2 | 41.7 |

**A** Efficiency Rating

**2** TWO YEAR WARRANTY

**ErP** Compliant

# 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 / Benefits

| Features | Benefits |
| --- | --- |
| 12kW, 15kW, 18kW, 24kW and 32kW | 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 temperature, saving money on fuel bills |
| Compatible with Multifit GasSaver | Can give savings of up to 37% on gas for DHW |
| Compatible with Megaflo Eco Solar Cylinder | Greater fuel savings for hot water - all available from one manufacturer |
| Pre-plumbing jig | Pipework 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 |
| NOx 5 - best in class | Complies with the Code for Sustainable Homes |
| Robust hydraulic connections | Quality and reliability |
| Optional Offset Elbow available for centre flueing | Allows replacement of boilers with a central flue without the need to drill a new hole |
| Vertical packaging | Allows for ease of access to all installation accessories from top of the packaging |

# Dimensions

5mm min   450mm   5mm min

5mm min in operation
450mm for servicing

175mm min
(300mm
80/125 flue)

180mm

780mm

150mm min

NB. Flue is offset to the right.

345mm

3° (1 in 20) or at least 1.5° providing flue has been adequately clamped as per installation instructions
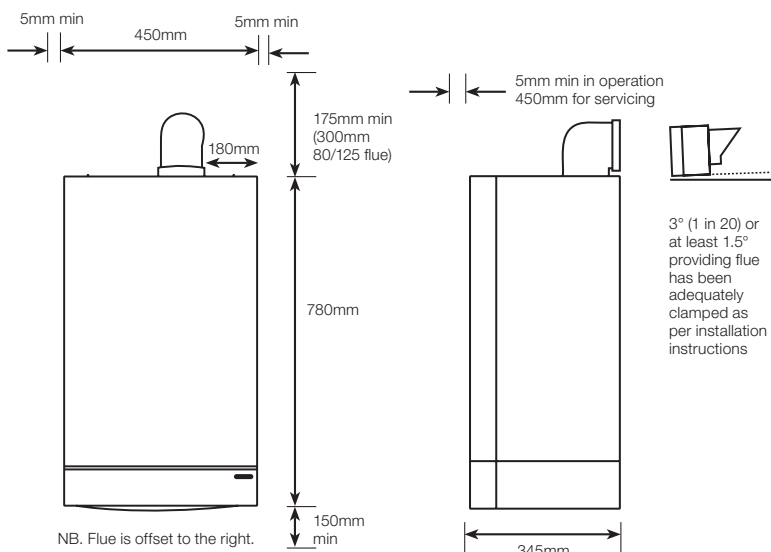
# Controls and Accessories

## These accessories are available for the Promax System

| | |
| --- | --- |
| Potterton EP Series 2 | 7211473 |
| 2 Channel Wired Programmer Kit | 7212443 |
| Baxi Room thermostat | 720971601 |
| Stand Off Kit | 5117035 |
| Remote Secondary Prv Kit | 5121379 |
| Multifit-Condensate Antifreezing Kit-1m | 720644401 |
| Multifit-Condensate Antifreezing Kit-2m | 720664101 |
| Multifit-Condensate Antifreezing Kit-3m | 720664201 |
| Multifit-Condensate Antifreezing Kit-5m | 720664401 |
| Multifit External Condensate/Prv Pump | 720648301 |



**7211473**
Potterton EP Series 2

**7212443**
2 Channel Wired Programmer Kit



**720971601**
Baxi Room thermostat

**720648101**
Stand Off Kit - Standard

# Technical information

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

## Potterton Promax System

| | Units | 12 | 15 | 18 | 24 | 32 |
|---|---|---|---|---|---|---|
| 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 | m³/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 |

### ErP product information

| | | | | | | |
|---|---|---|---|---|---|---|
| NOx | mg/kWh | 15 | 25 | 29 | 20 | 24 |
| Sound power level, indoors | $L_{WA}$ 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 |
|---|---|---|---|---|---|---|
| **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 |

**A** Efficiency Rating

**A\*** Efficiency Rating

**2** TWO YEAR WARRANTY

ErP Compliant

# 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 | Benefits |
|---|---|
| 24kW, 28kW, 33kW and 40kW | A model for most sizes of property |
| SAP 2012 seasonal efficiency figure of 89.1% | Easier, more cost effective Building Regulations compliance |
| Service due indicator | Reminds your customer to ensure that the boiler is serviced |
| Natural Gas and LPG ready | One boiler to suit both fuel types, no need for a conversion kit |
| Front access to all components | Saves time when servicing |
| Pre-plumbing jig | Saves time on installation |
| Flueing options of up to 20m | Allowing greater flexibility of siting |
| Optional Outdoor weather sensor available | Enhances system control and customer comfort |
| Optional stand off bracket boiler | Allows pipes to be run behind the |
| Optional Offset Elbow available for centre flueing | Allows replacement of boilers with a central flue without the need to drill a new hole |
| Filling Loop included in the box | For ease of filling and topping up the system |
| Vertical packaging | Allows for ease of access to all installation accessories from top of the packaging |

## Dimensions
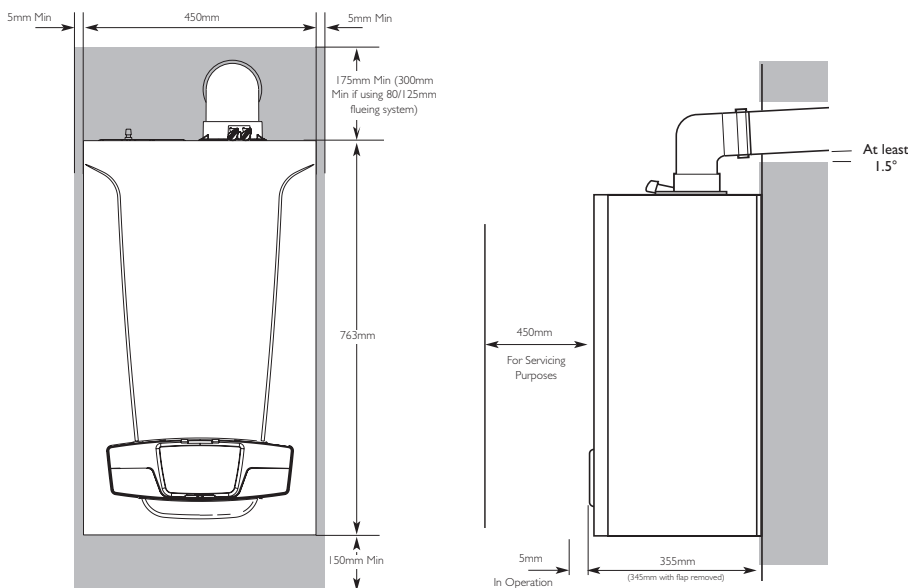


# Controls and Accessories

## These accessories are available for the Promax Ultra Combi

| | |
|---|---|
| Potterton EP Series 1 | 7211472 |
| Single Channel Wired Prog Kit | 7212444 |
| Baxi Electromechanical 24hr timer kit (surface mount) | 7209714 (01) |
| Baxi Room thermostat | 720971601 |
| RF Digital 7 Day Programmable Roomstat | 720030601 |
| Programmable 7 day wired sensor (2 channel) | 720644701 |
| Programmable 24hr wireless sensor (single channel) | 720644901 |
| Potterton plug-in 24hr digital timer - Ultra | 7652659 |
| Stand Off Kit | 720648101 |
| Remote Secondary Prv Kit | 5121379 |
| Filling Loop Kit | 248221 |
| Multifit-Condensate Antifreezing Kit-1m | 720644401 |
| Multifit-Condensate Antifreezing Kit-2m | 720664101 |
| Multifit-Condensate Antifreezing Kit-3m | 720664201 |
| Multifit-Condensate Antifreezing Kit-5m | 720664401 |
| Multifit External Condensate/Prv Pump | 720648301 |



**7211472**
Potterton EP Series 1

**7212444**
Single Channel Wired Prog Kit

**7209714 (01)**
Baxi Electromechanical 24hr timer kit (surface mount)

**720971601**
Baxi Room thermostat

# 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

| | | 24 | 28 | 33 | 40 |
|---|---|---|---|---|---|
| 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

| | | 24 | 28 | 33 | 40 |
|---|---|---|---|---|---|
| Natural gas | | Yes | Yes | Yes | Yes |
| Nominal inlet supply pressure | mbar | 20 | 20 | 20 | 20 |
| Maximum gas rate | $m^3$/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 @ 30°C rise | 10.9 | 12.9 | 15.3 | 18.3 |
| 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 |

### ErP product information

| | | 24 | 28 | 33 | 40 |
|---|---|---|---|---|---|
| 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

| | | 24 | 28 | 33 | 40 |
|---|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|

## 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 |

**A**
Efficiency Rating

**2**
TWO
YEAR
WARRANTY

**ErP**
Compliant

# Ultra System

The Potterton Ultra System is a fully modulating and highly efficient boiler available in a range of outputs from 12kW up to 28kW making it suitable for most new build properties.

**12kW to 28kW**

Outputs

**Up to 20m**

Flueing options

**Up to 37%**

Gas savings

# Features and benefits

### Features | Benefits

| Features | Benefits |
|----------|----------|
| Outputs: 12kW, 15kW, 18kW, 24kW and 28kW | To suit most property sizes |
| Fully modulating and highly efficient | Boiler intelligently uses the right amount of fuel to meet the set central heating temperatures, saving money on fuel bills |
| Compatible with Multifit GasSaver | Can give savings of up to 37% on gas for DHW |
| Compatible with Megaflo Eco Solar Cylinder | Great fuel savings for hot water - all available from one manufacturer |
| Pre-plumbing jig | Pipework can be pre-installed and the boiler added when the property is occupied |
| Optional stand off bracket | Allows pipes to be routed behind the boiler |
| Robust hydraulic connections | Quality and reliability |
| Front access to the boiler | Allows for ease of maintenance and repair |
| Ease of service | No special tools or replacement seals required for standard service |
| Flueing options up to 20m | Allowing greater flexibility of siting |
| LPG Option | Suitable for homes without mains gas |
| Vertical packaging | Allows for ease of access to all installation accessories from top of the packaging |
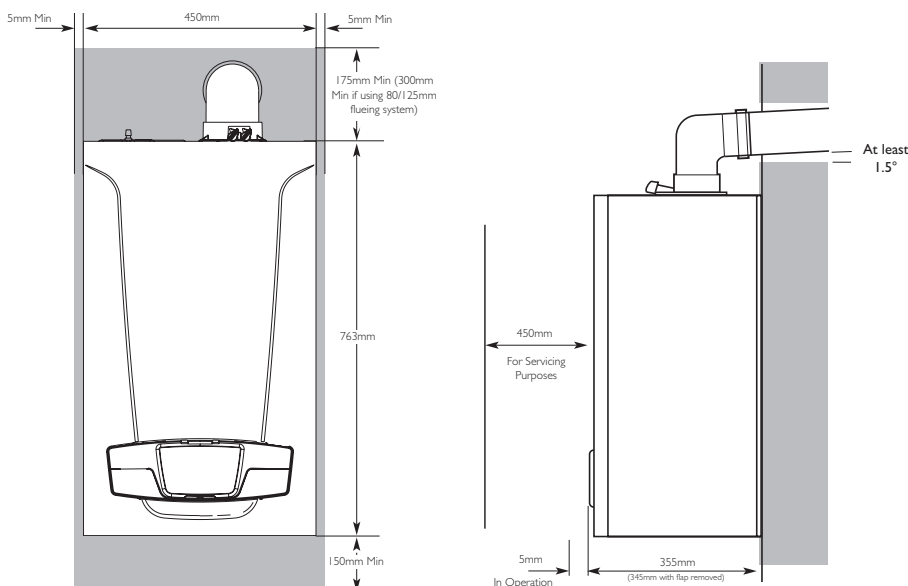
# Controls and Accessories

## These accessories are available for the Ultra System

| | |
|----------|----------|
| Potterton EP Series 2 | 7211473 |
| Twin Channel Wired Programmer | 7212443 |
| Room Thermostat | 720971601 |
| Multifit-Condensate Antifreezing Kit-1m | 720644401 |
| Multifit-Condensate Antifreezing Kit-2m | 720664101 |
| Multifit-Condensate Antifreezing Kit-3m | 720664201 |
| Multifit-Condensate Antifreezing Kit-5m | 720664401 |
| Multifit External Condensate/Prv Pump | 720648301 |

**7211473**
Potterton EP Series 2

**7212443**
2 Channel Wired Programmer Kit

**720030601**
Room Thermostat

# Dimensions

5mm Min — 450mm — 5mm Min

175mm Min (300mm Min if using 80/125mm flueing system)

763mm

150mm Min

450mm
For Servicing Purposes

At least 1.5°

5mm
In Operation

355mm
(345mm with flap removed)

# Technical information

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

## Potterton Ultra System

| | Units | 12 | 15 | 18 | 24 | 28 |
|---|---|---|---|---|---|---|
| Sales code | | 7672590 | 7672591 | 7672592 | 7672593 | 7672594 |

### Controls

| | | 12 | 15 | 18 | 24 | 28 |
|---|---|---|---|---|---|---|
| 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

| | | 12 | 15 | 18 | 24 | 28 |
|---|---|---|---|---|---|---|
| Natural gas | | Yes | Yes | Yes | Yes | Yes |
| Nominal inlet supply pressure | mbar | 20 | 20 | 20 | 20 | 20 |
| Maximum gas rate | $m^3/h$ | 1.27 | 1.59 | 1.90 | 2.54 | 2.96 |
| Propane LPG | | Yes | Yes | Yes | Yes | Yes |
| Nominal inlet supply pressure | mbar | 37 | 37 | 37 | 37 | 37 |
| Maximum gas rate (Note: Gas Type can be selected at commissioning) | kg/h | 0.93 | 1.17 | 1.40 | 1.86 | 2.18 |
| Heat input central heating (CH) | kW Max Gross(QnHs) | 13.30 | 16.70 | 20.00 | 26.60 | 31.10 |
| | kW Min Gross(QnHs) | 2.33 | 2.44 | 2.88 | 3.88 | 4.54 |
| Heat output CH non-condensing | kW Max (Pn) | 12.00 | 15.00 | 18.00 | 24.00 | 28.00 |
| | kW min (Pn) | 2.00 | 2.10 | 2.50 | 3.40 | 4.00 |
| Heat output CH condensing | kW max (Pnc) | 12.70 | 15.90 | 19.00 | 25.40 | 29.60 |
| | kW min (Pnc) | 2.20 | 2.30 | 2.80 | 3.70 | 4.30 |
| SAP 2009 annual efficiency (PCDB/SEDBUK) NG | % | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 |
| SAP 2009 annual efficiency (PCDB/SEDBUK) LPG | % | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 |

### ErP product information

| | | 12 | 15 | 18 | 24 | 28 |
|---|---|---|---|---|---|---|
| NOx | mg/kWh | 21 | 21 | 26 | 16 | 16 |
| Space heating efficiency class | | A | A | A | A | A |
| EcoHomes | Credit | 3 | 3 | 3 | 3 | 3 |

### Electrical

| | | 12 | 15 | 18 | 24 | 28 |
|---|---|---|---|---|---|---|
| Electrical supply | Volts/Hz | 230/50 | 230/50 | 230/50 | 230/50 | 230/50 |
| Permanent live required | | Yes | Yes | Yes | Yes | Yes |
| Fitted electrical cable | | No | No | No | No | No |
| Power consumption | Watts | 75 | 80 | 80 | 85 | 90 |
| External fuse rating | Amps | 3 | 3 | 3 | 3 | 3 |
| Internal fuse rating | Amps | F2L | F2L | F2L | F2L | F2L |
| Boiler IP rating (electrical protection) | Approval category | IPX5D | IPX5D | IPX5D | IPX5D | IPX5D |
| Integral 'boiler only' frost thermostat | | Yes | Yes | Yes | Yes | Yes |
| Pump overrun | | Yes | Yes | Yes | Yes | Yes |

| | Units | 12 | 15 | 18 | 24 | 28 |
|---|---|---|---|---|---|---|
| **Mechanical** | | | | | | |
| Pre-plumbing/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 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| Safety discharge connection | mm | 15 | 15 | 15 | 15 | 15 |
| **Hydraulic** | | | | | | |
| Integral automatic bypass | | Yes | Yes | Yes | Yes | Yes |
| Integral expansion vessel capacity | litres | 6 | 6 | 6 | 6 | 6 |
| Max capacity of central heating system | litres | 100 | 100 | 100 | 100 | 100 |
| Compartment ventilation requirement | | No | No | No | No | No |
| CH system inhibitor required | | Yes | Yes | Yes | Yes | Yes |
| 24 hour pump exercise | | Yes | Yes | Yes | Yes | Yes |
| Pump overrun | | Yes | 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 | 685 |
| Max equiv length horizontal/vertical  (60/100mm) | m | 10 | 10 | 10 | 10 | 10 |
| Max equiv length horizontal/vertical  (80/125mm) | m | 20 | 20 | 20 | 20 | 20 |
| Equivalent length per 135º bend | m | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Equivalent length per 93º bend | m | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| **Weights** | | | | | | |
| Max installation lift weight | kg | 31 | 31 | 31 | 31 | 33 |
| Gross packaged boiler weight | kg | 35 | 35 | 35 | 35 | 37 |

**A** Efficiency Rating

**2** TWO YEAR WARRANTY

**ErP** Compliant

# Ultra Heat

The Potterton Ultra Heat is, at only 19.5kg, the lightest boiler available on the UK market.** It has a central flue and does not need a pump overrun or permanent live, making it suitable as a replacement for old boilers.

**12kW to 24kW**

Outputs

**19.5kg**

Installer lift weight

**270mm deep**

Cupboard fit

## Features and benefits

| Features | Benefits |
|---|---|
| Outputs: 12kW, 15kW, 18kW, 21kW, 24kW | To suit most property sizes |
| Only 19.5kg installer lift weight | The lightest boiler available in UK** |
| Cupboard fit | Can be installed discreetly |
| Easy fit wall mounting bracket | Robust with a positive fix and audible lock so you know it's secure |
| One metre lead included | Easy to install and you don't need access to the control box |
| Top central flue | Easy replacement for existing boilers |
| No pump overrun or permanent live required | Saves time and money during installation, and less disruption for the householder |
| Front and side access | Servicing is easier and quicker, and no special tools are required |
| Wide choice of flue lengths, bends and accessories | For versatile siting |
| Vertical packaging | Allows for ease of access to all installation accessories from top of the packaging |

** As at June 2014.

## Controls and Accessories

### These accessories are available for the Ultra Heat

| | |
|---|---|
| Potterton EP Series 2 | 7211473 |
| 2 Channel Wired Programmer Kit | 7212443 |
| Multifit-Condensate Antifreezing Kit-1m | 720644401 |
| Multifit-Condensate Antifreezing Kit-2m | 720664101 |
| Multifit-Condensate Antifreezing Kit-3m | 720664201 |
| Multifit-Condensate Antifreezing Kit-5m | 720664401 |
| Multifit External Condensate/Prv Pump | 720648301 |

**7211473**
Potterton EP Series 2

**7212443**
2 Channel Wired Prog Kit

## Dimensions



5mm min  370mm  5mm min
190mm min
625mm
35mm min in cupboard
120mm min when over surface 600mm deep

5mm min in operation
500mm for servicing

At least 1.5° providing flue has been adequately secured as per installation instructions

270mm
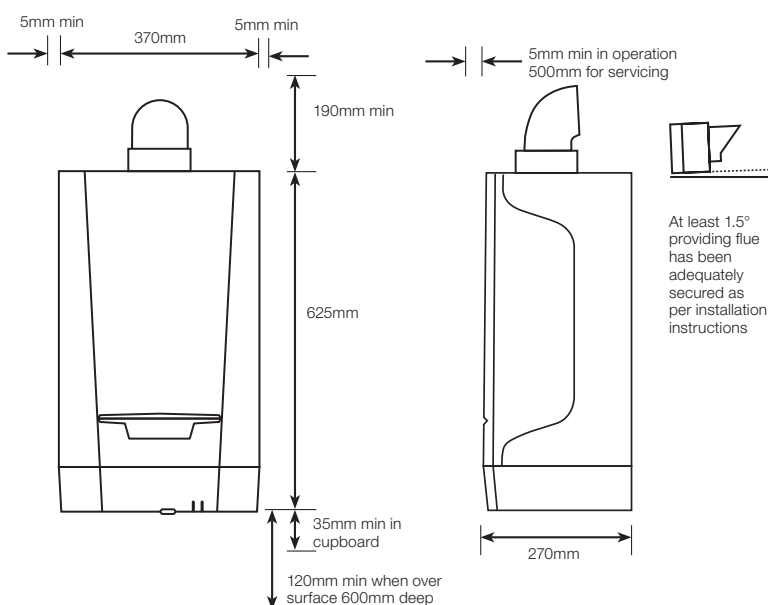
# Technical information

## The Potterton Ultra Heat is compatible with Flue Group A

## Potterton Ultra Heat

| | Units | 12 | 15 | 18 | 21 | 24 |
|---|---|---|---|---|---|---|
| Sales code (boiler only) | | 7668243 | 7668244 | 7668245 | 7668246 | 7668247 |

### Controls

| | | 12 | 15 | 18 | 21 | 24 |
|---|---|---|---|---|---|---|
| Reset button | | 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 temp/status/fault diagnosis display | | Yes | Yes | Yes | Yes | Yes |

### Gas

| | | 12 | 15 | 18 | 21 | 24 |
|---|---|---|---|---|---|---|
| Gas (natural gas/LPG) | | NG | NG | NG | NG | NG |
| Inlet supply pressure | mbar | 20 | 20 | 20 | 20 | 20 |
| Maximum gas rate | m³/hr | 1.42 | 1.75 | 2.07 | 2.73 | 3.27 |
| Heat input central heating (CH) | kW max gross (QnHs) | 14.88 | 18.32 | 21.75 | 28.62 | 34.35 |
| | kW min gross (QnHs) | 8.59 | 8.59 | 8.59 | 8.59 | 8.59 |
| Heat output CH non-condensing | kW max (Pn) | 13 | 16 | 19 | 25 | 30 |
| | kW min (Pn) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| SAP 2009/2012 annual efficiency (PCDB/SEDBUK) | % | 89.2 | 89.2 | 89.2 | 89.1 | 89.1 |

### ErP product information

| | | 12 | 15 | 18 | 21 | 24 |
|---|---|---|---|---|---|---|
| NOx | mg/kWh | 18 | 20 | 21 | 24 | 24 |
| Sound power level, indoors | $L_{WA}$ dB | 32 | 33 | 34 | 37 | 37 |
| Space heating efficiency class | | A | A | A | A | A |
| Heat input CH | kW max gross (QnHs) | 14.88 | 18.32 | 21.75 | 24.04 | 28.62 |
| | kW min gross (QnHs) | 8.59 | 8.59 | 8.59 | 8.59 | 8.59 |
| Heat output CH (non condensing) | kW max (Pn) | 13 | 16 | 19 | 21 | 25 |
| | kW min (Pn) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Inlet supply pressure (natural gas) | mbar | 20 | 20 | 20 | 20 | 20 |
| Maximum gas rate | m³/hr | 1.42 | 1.75 | 2.07 | 2.29 | 2.73 |

### Electrical

| | | 12 | 15 | 18 | 21 | 24 |
|---|---|---|---|---|---|---|
| Electrical supply | volts/Hz | 230/50 | 230/50 | 230/50 | 230/50 | 230/50 |
| Permanent live required | | No | No | No | No | No |
| Switched live | | Yes | Yes | Yes | Yes | Yes |
| Electrical power cable fitted as standard, 1m of 3 core | | Yes | Yes | Yes | Yes | Yes |
| Power consumption | Watts | 17 | 20 | 23 | 33 | 44 |
| External fuse rating | Amps | 3 | 3 | 3 | 3 | 3 |
| Internal fuse rating | | 1.6T | 1.6T | 1.6T | 1.6T | 1.6T |
| Boiler IPX rating (electrical protection) | Approval category | IPX4D | IPX4D | IPX4D | IPX4D | IPX4D |
| Pump overrun | | No | No | No | No | No |

| | Units | 12 | 15 | 18 | 21 | 24 |
|---|---|---|---|---|---|---|
| **Mechanical** | | | | | | |
| Gas supply connection | mm | 22 | 22 | 22 | 22 | 22 |
| 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 |
| Flow / return pipe size | mm | 22 | 22 | 22 | 22 | 22 |
| **Hydraulic** | | | | | | |
| Compartment ventilation required | | No | No | No | No | No |
| **Concentric flue systems** | | | | | | |
| Standard telescopic concentric flue length | mm | 315 - 500 | | | | |
| Horizontal concentric (60/100 mm)  Max equivalent length | m | 6 | 6 | 6 | 6 | 6 |
| Reduction per 135º bend | m | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Reduction per 93º bend | m | 1 | 1 | 1 | 1 | 1 |
| Horizontal concentric (80/125 mm)  Max equivalent length | m | 12 | 12 | 12 | 12 | 12 |
| **Plume displacement kit** | | | | | | |
| Compatibility | | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Weights** | | | | | | |
| Gross packaged boiler weight | kg | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 |
| Maximum installation lift weight | kg | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 |

**A** Efficiency Rating

**A\*** Efficiency Rating

TWO
YEAR
WARRANTY **2**

ErP
Compliant

# 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

**Up to 20m**

Flueing options

**Unique**
**roller system**

Easier to install

# Features and benefits

| Features | Benefits |
|---|---|
| Available in 90, 115 or 150 litre stores | Meets the most demanding hot water requirements |
| Fully modulating and highly efficient | Boiler intelligently uses the right amount of fuel to meet the set central heating temperature, saving money on fuel bills |
| Unique roller system | Easier to move and install |
| Built-in two stage frost protection | Can be installed in basements or garages |
| Flueing options of up to 20m | Allowing for greater boiler siting flexibility |
| Fully pumped sealed system | No tanks in the loft required |
| Domestic hot water priority system | Plenty of hot water, whenever you need it |
| 7 day digital | Factory fitted for quicker installation easy to use programmer |
| Vertical packaging | Allows for ease of access to all installation accessories from top of the packaging |

# Controls and Accessories

## These accessories are available for the Promax Store

| | |
|---|---|
| Baxi Room thermostat | 720971601 |
| Remote Secondary Prv Kit | 5121379 |
| Multifit-Condensate Antifreezing Kit-1m | 720644401 |
| Multifit-Condensate Antifreezing Kit-2m | 720664101 |
| Multifit-Condensate Antifreezing Kit-3m | 720664201 |
| Multifit-Condensate Antifreezing Kit-5m | 720664401 |
| Multifit External Condensate/Prv Pump | 720648301 |

720971601
Baxi Room thermostat

# Dimensions



25mm min
550mm
25mm min
250mm min
1264mm to 1544mm (dependent on appliance cylinder size)
50mm min in operation
450mm for servicing
3° (1 in 20) or at least 1.5° providing flue has been adequately clamped as per installation instructions
600mm
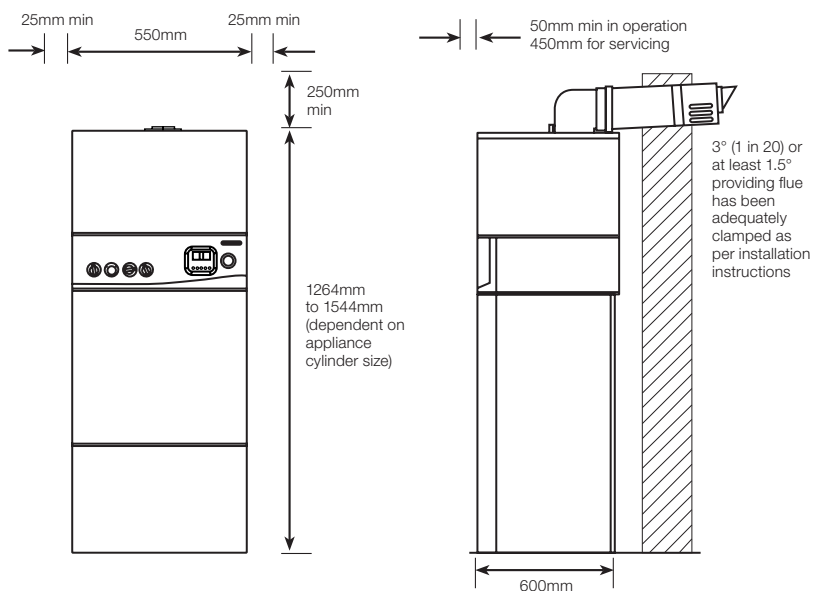
# Technical information

**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

| | | 90L | 115L | 150L |
|---|---|---|---|---|
| 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

| | Units | 90L | 115L | 150L |
|---|---|---|---|---|
| Gas (natural gas/LPG) | | NG | NG | NG |
| Inlet supply pressure | mbar | 20 | 20 | 20 |
| Maximum gas rate | m³/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 |

### ErP product information

| | Units | 90L | 115L | 150L |
|---|---|---|---|---|
| NOx | mg/kWh | 18 | 18 | 18 |
| Sound power level, indoors | $L_{WA}$ 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 |
|---|---|---|---|---|

## 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 |

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

# 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 |

# 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 |
|---|---|---|---|---|---|
| 36 | Vertical flue terminal | Black | | 125mm | 5111078 |
| 38 | Twin pipe extension (pair inc. Brackets) | White | 1000mm | 80mm | 5111087 |
| 39 | Twin pipe flue bend (pair) | White | 90° | 80mm | 5111072 |
| 40 | Twin pipe flue bend (pair) | White | 135° | 80mm | 5111086 |
| 28 | Roof cover plate | | | 125mm | 246143 |
| 41 | Twin pipe flue horizontal terminal kit (air and exhaust) | Stainless steel | | 80mm | 5120172 |
| 42 | Twin pipe flue adaptor (boiler) | White | | 80/80mm | 720089801 |
| 43 | Twin pipe support (pair) | White | | 80mm | 5111081 |
| 44 | Twin to concentric adaptor 80/80 - 80/125 | White | | 80/125mm | 5111084 |
| 29 | Pitched roof flashing | | 25°/50° | 125mm | 5122151 |
| 30 | Flat roof flashing | | | 125mm | 246144 |
| 45 | Pitch roof flue terminal | Black | 25°/50° | 60mm | 720576301 |
| 46 | Pitched roof terminal adaptor kit | White | | 60-80mm | 5121792 |
| 47 | Single flue terminal (air only) | | | 80mm | 5121791 |

### Terminal position with minimum distance (mm)

A[1] Directly below an opening, air brick, opening windows etc — 300
B[1] Above an opening, air brick, opening window etc — 300
C[1] Horizontally to an opening, air brick, opening window etc — 300
D[2] Below gutters, soil pipes or drain pipes — 25
E[2] Below eaves — 25
F[2] Below balconies or car port roof — 25
G[2] From a vertical drain pipe or soil pipe — 25
H[2] 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

1. 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.

2. 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.


Likely flue positions requiring a flue terminal guard
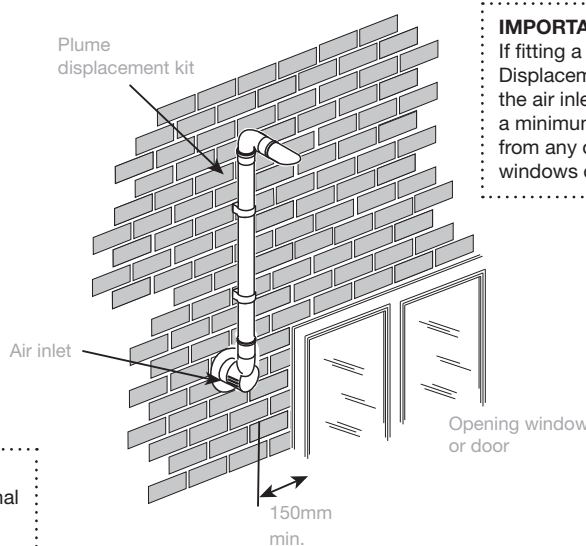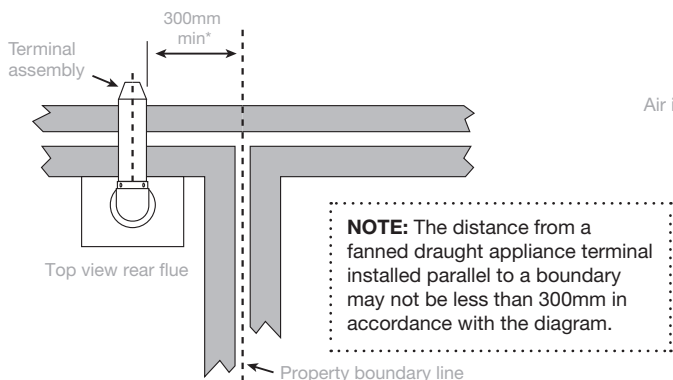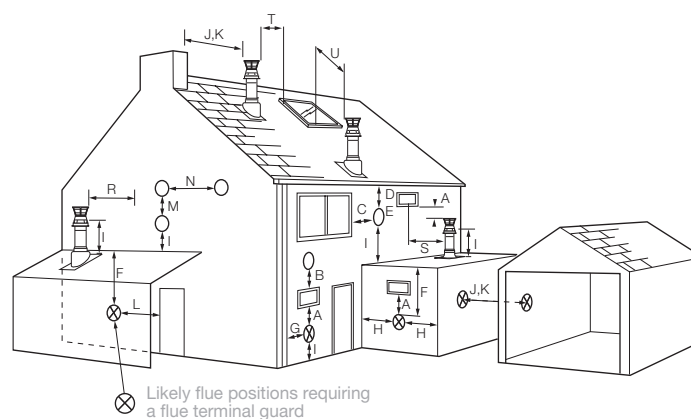
**IMPORTANT:** If fitting a Plume Displacement Flue Kit, the air inlet must be a minimum of 150mm from any opening windows or doors

Plume displacement kit

Air inlet

Opening window or door

150mm min.

300mm min*

Terminal assembly

Top view rear flue

**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.

Property boundary line

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

# Optional controls and accessories

**247206**
Integral 24hr electro-mechanical timer

**720030001**
Wired weather sensor kit

**720056901**
Multifit GasSaver

**720627901**
Terminal guard Ø 60/100

**720644801**
Programmable 7 day wireless sensor

**720644901**
Programmable 24hr wireless sensor

**5117392**
Wireless timer room thermostat

**720030601**
Digital RF 7 day programmable room thermostat (wireless)

**247207**
Integral 7 day electronic

**720971601**
Baxi Room thermostat

**7211473**
Potterton EP Series 2

**7211472**
Potterton EP Series 1

**7212444**
Single Channel Wired Prog Kit

**7212438**
Baxi single channel wired programmable room thermostat

**7212443**
2 Channel Wired Programmer Kit

**7209714 (01)**
Baxi Electromechanical 24hr timer kit (surface mount)

**7682545**
Multifit pre-plumb jig

**248221**
Filling Loop Kit

**720644701**
Programmable 7 day wired sensor (2 channel)

**720644901**
Programmable 24hr wireless sensor (single channel)

**7652659**
Potterton plug-in 24hr digital timer - Ultra

**720330001**
Multifit Outdoor Sensor Kit

**720648101**
Stand Off Kit - Standard
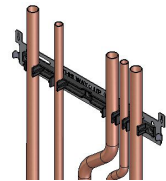
**7682790**
Multifit rear pipework kit

**7683088**
Multifit Safety Assist

**7683087**
Multifit wired outdoor sensor-system

**7686478**
Multifit wired outdoor sensor-combi

# Controls and accessories compatibility

| Product | Sales code | Promax Combi | Promax System | Ultra Combi | Ultra System | Ultra Heat | Promax Store | Assure Combi | Assure System | Assure Heat |
|---|---|---|---|---|---|---|---|---|---|---|
| Integral 24hr Electro-mechanical Timer | 247206 | ● | | | | | | | | |
| Integral 7 Day Electronic Timer | 247207 | ● | | | | | | | | |
| Potterton 24hr Wireless Programmable Room Thermostat (Single Channel) | 5117392 | ● | | | | | | | | |
| Baxi single channel wired programmable room thermostat | 7212438 | | | | | | | ● | | |
| 2 Channel Wired Programmer Kit | 7212443 | | ● | | ● | ● | | | ● | ● |
| Single Channel Wired Prog Kit | 7212444 | | | ● | | | | | | |
| Baxi Electromechanical 24hr timer kit (surface mount) | 7209714 (01) | ● | | ● | | | | | | |
| Baxi Room thermostat | 720971601 | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| RF Digital 7 Day Programmable Roomstat | 720030601 | ● | | ● | | | | | | |
| Programmable 7 day wired sensor (2 channel) (Bertelli OT) | 720644701 | | | ● | | | | | | |
| Programmable 24hr wireless sensor (single channel) Spare only | 720644901 | | | ● | | | | | | |
| Potterton plug-in 24hr digital timer - Ultra | 7652659 | | | ● | | | | | | |
| Multifit Outdoor Sensor Kit (Contains QAC34 720103001) | 720330001 | ● | | | | | | | | |
| Multifit wired outdoor sensor-system NG3 (Contains QAC34 720103001) | 7683087 | | | | | | | ● | ● | |
| Multifit wired outdoor sensor-combi NG3 (Contains QAC34 720103001) | 7686478 | | | | | | | ● | | |
| Potterton EP Series 1 | 7211472 | ● | | ● | | | | ● | | |
| Potterton EP Series 2 | 7211473 | | ● | | ● | ● | | | ● | ● |
| Stand Off Kit - Luna 3 (SS) | 5117035 | ● | ● | | | | | | | |
| Stand Off Kit - Standard (Luna4 SS) | 720648101 | | | ● | | | | | | |
| Multifit pre-plumb jig-NG3 | 7682545 | | | | | | | ● | ● | |
| Multifit rear pipework kit-NG3 | 7682790 | | | | | | | ● | ● | |
| Remote Secondary Prv Kit | 5121379 | ● | ● | ● | | | ● | ● | ● | |
| Filling Loop Kit | 248221 | ● | | ● | | | | ● | | |
| Multifit easy-link | 7665482 | | | | | | | ● | | |
| Multifit-Condensate Antifreezing Kit-1m | 720644401 | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Multifit-Condensate Antifreezing Kit-2m | 720664101 | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Multifit-Condensate Antifreezing Kit-3m | 720664201 | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Multifit-Condensate Antifreezing Kit-5m | 720664401 | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Multifit External Condensate / Prv Pump | 720648301 | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Multifit Safety Assist | 7683088 | | | | | | | ● | | |

**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

# 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."*
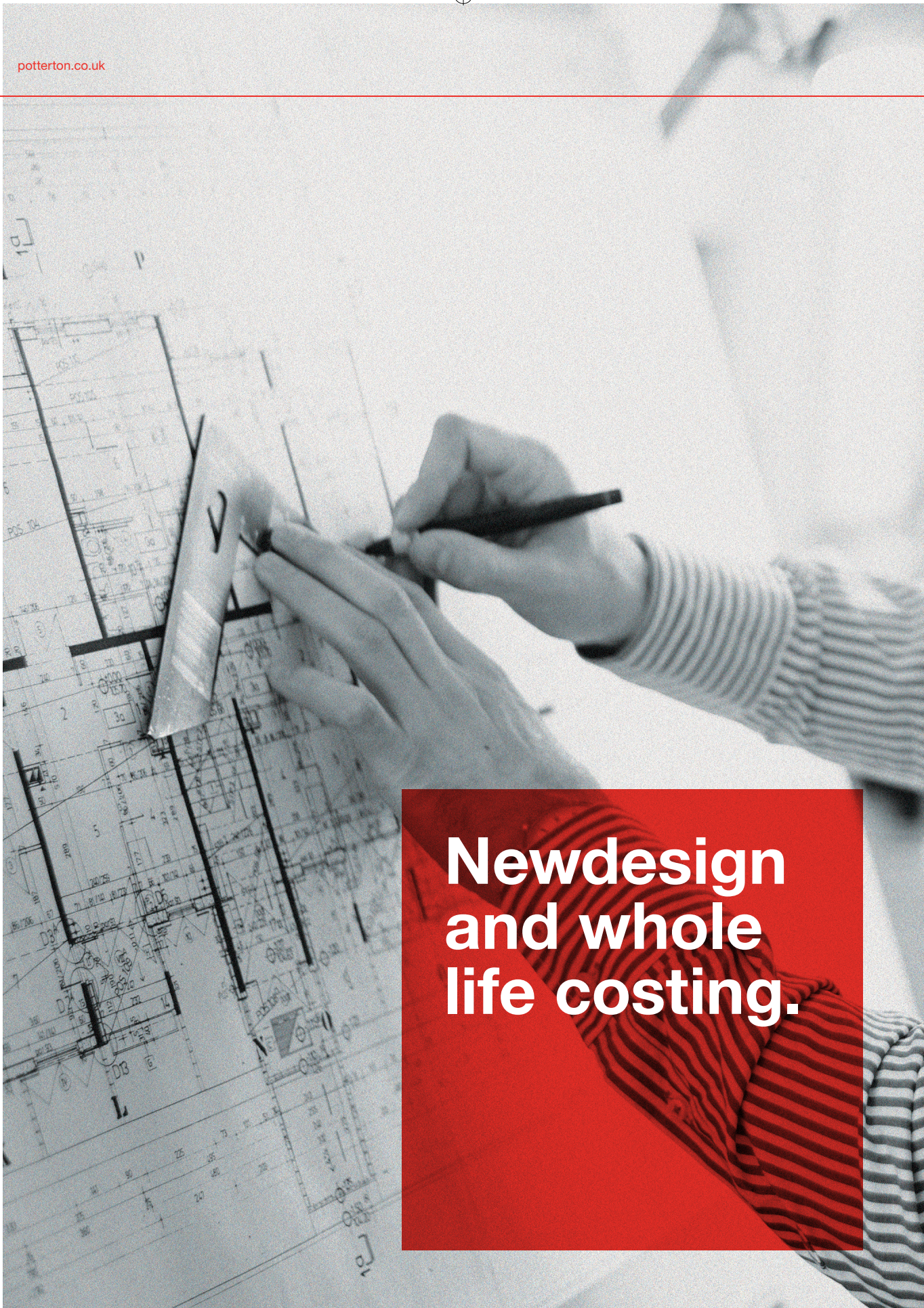
# Newdesign and whole life costing.

# Newdesign

Our Newdesign team provides a full heating system design service for residential developments that incorporate our heating and hot water products.

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.

## Benefits at a glance

- Full heating system design service

- Available free of charge to Potterton and Heatrae Sadia customers

- Bespoke service tailored to each individual development

- Newdesign works with SAP assessors

- All system designs fully indemnified

- Database of over 40,000 house type designs

## 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

## 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

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

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

## Notes

## Notes

**POTTERTON**

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web  potterton.co.uk

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*benchmark*
THE MARK OF QUALITY FOR THE INSTALLATION, COMMISSIONING AND SERVICING OF DOMESTIC HEATING AND HOT WATER SYSTEMS

PRG_ISSUE2_07/17

**POTTERTON**

**Totally dependable.**