

# BAXI



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## Introduction

BAXI is one of the leading names in the heating industry with an enviable range of gas boilers that cover an extensive selection of output levels. This comprehensive product range ensures that BAXI is able to provide a solution suitable for virtually all domestic heating requirements.

Flexibility of flue arrangements is vital to the successful installation of any boiler and BAXI offers a wide selection of options for all eventualities. This guide provides one single reference for all flue systems across the whole range of BAXI products, including details of parts required and diagrams depicting typical installations.

Every individual product has specific guidelines from which the most appropriate installation solution may be derived. However, all diagrams are provided as a guide and are not prescriptive to all situations. Additional flexibility may be possible and further assistance is available 6 days a week through our technical helpline (see [back page](#) for details).

### How to Calculate Flue Lengths

All products have a maximum permissible flue length for each variation of flue that is provided in the respective technical tables throughout the guide. For all flue systems longer than standard horizontal flues, the addition of "in line" flue bends must be taken into consideration.

The basic reductions applied for the inclusion of 45° and 90° bends are:

Concentric Pipe:	45° bend - 0.5 metre	90° bend - 1.0 metre
Twin Flue Pipe:	45° bend - 0.25 metre	90° bend - 0.5 metre

The elbow supplied with some standard horizontal flue kits is not included in any equivalent length calculations. Please see individual models for any specific deduction details.

### **Pipe Support Guidelines**

All flue systems must be supported by pipe support clamps and the number is often dependent on the specific system itself. However, the following are set as guidelines for the distances required between each clamp:

Concentric Horizontal - 1 clamp every 1 metre

Concentric Vertical - 1 clamp every 2 metres

See individual products for specific pipe support sales codes.

### **Fire Safety**

Please refer to BS 5440 part 1; 2000 for guidelines with regard to fire precautions and temperature effects - in particular clauses 4.4, 5.2.4, 8.2.3 and 9.2.3.

Page 2

## **BAXI COMBI**



### **BAXI COMBI 105e and BAXI COMBI Instant 105e**

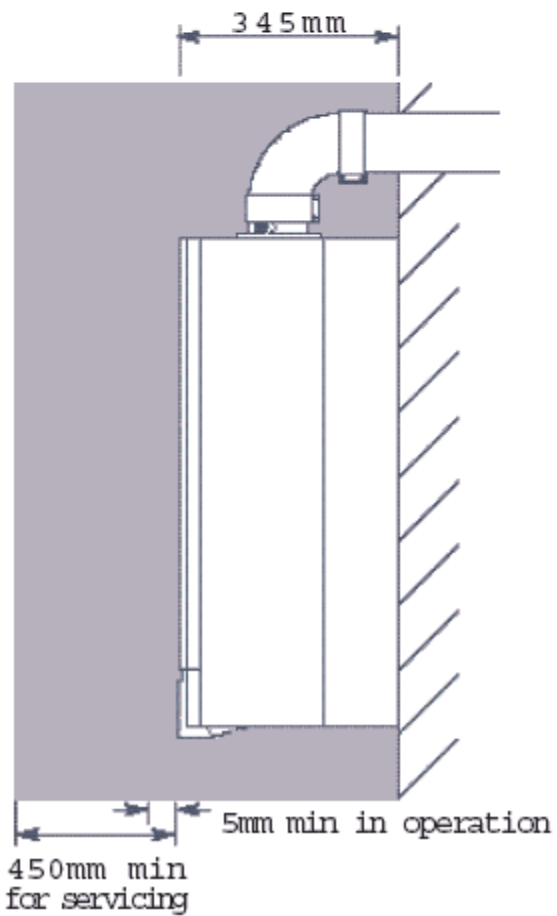
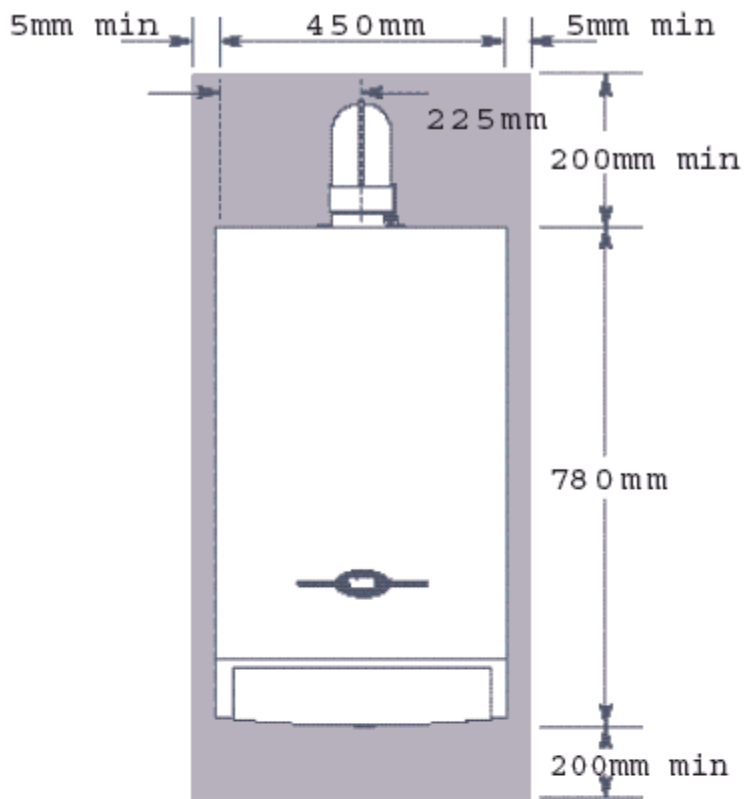
The BAXI COMBI 105e and Instant 105e combination boilers are designed to meet the needs of the consumer with a greater demand for hot water. Output to domestic hot water is 31kW providing 12.7 litres per minute raised by 35°C. The output to central heating is also 31kW; suitable for larger properties.

Both models come complete with a pre-plumbing wall plate for easier installation. Behind an attractive drop down door ten LED status indicators monitor temperature, operating and fault conditions giving peace of mind to the user and providing a diagnostic facility for the installer and service engineer.

With all the benefits of the BAXI COMBI 105e the BAXI COMBI Instant 105e provides an immediate response to hot water requirements. A small storage vessel, with a pre-heat feature built into the boiler enables hot water to be provided from the moment the tap is turned on, thus avoiding the delay due to the boiler achieving temperature.

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### **BAXI COMBI dimensions & clearances**



Pre-heat function  
(Instact 105e only)



12.7 litres per minute  
raised by 35°C



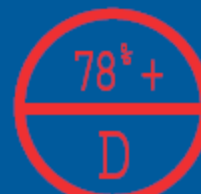
The output to central  
heating is 31kW



10 LED status indicators



Independent controls for  
hot water and central  
heating



SEDBUK Rating

## **BAXI COMBI**



### **BAXI COMBI 80e and BAXI COMBI Instant 80e**

The BAXI COMBI 80e and Instant 80e are suitable for almost all hot water and heating requirements. Output to domestic hot water is 24kW providing flow rate of 9.8 litres per minute raised by 35°C.

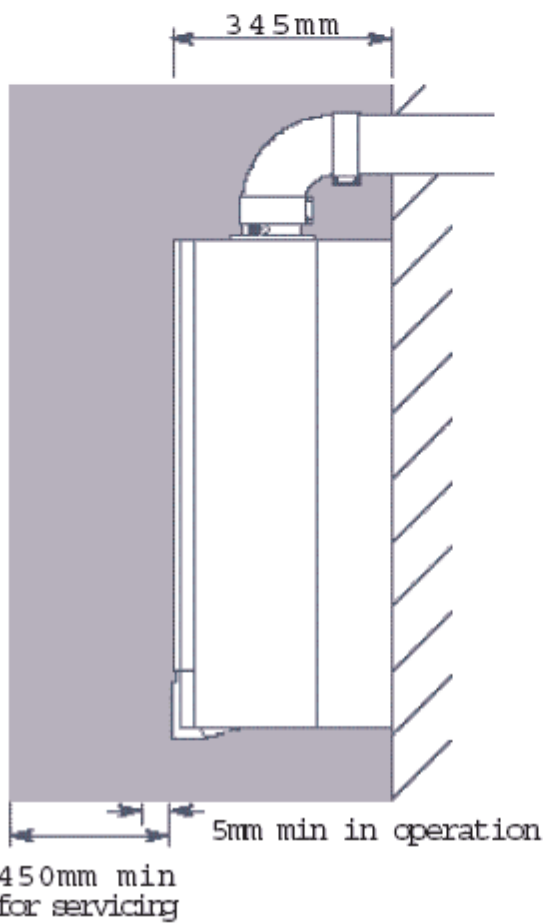
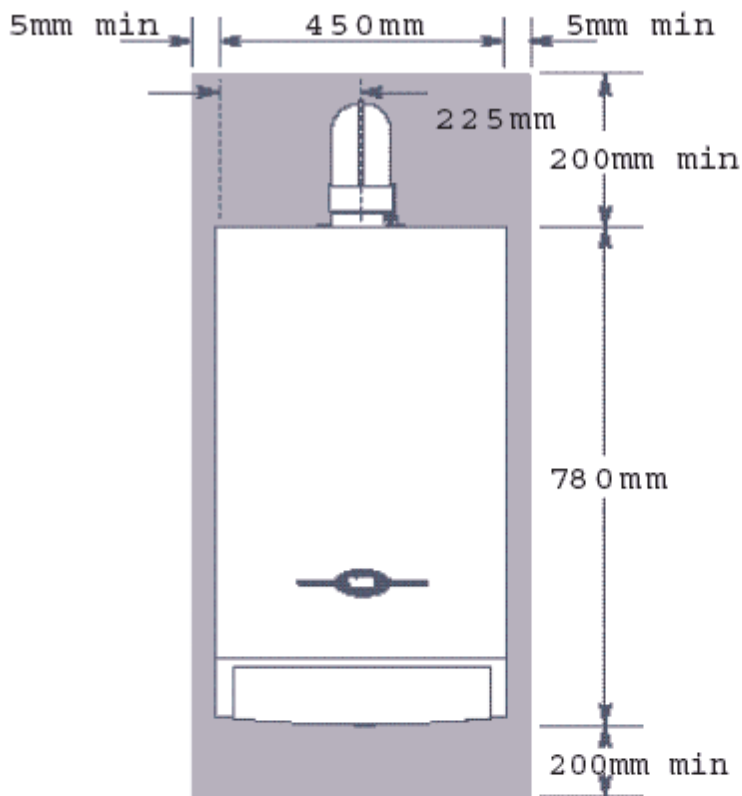
Both models come complete with a pre-plumbing wall plate for easier installation. Behind an attractive drop down door they feature ten LED status indicators monitoring temperature, operating and fault conditions giving peace of mind to the user and providing a diagnostic facility for the installer and service engineer.

An operating mode selector switch is also featured with an integral reset position and independent controls for both central heating and hot water temperatures.

With all the benefits of the BAXI COMBI 80e the BAXI COMBI Instant 80e provides an immediate response to hot water requirements. A small storage vessel, with a pre-heat feature built into the boiler enables hot water to be provided from the moment the tap is turned on, thus avoiding the delay due to the boiler achieving temperature.

Page 5

### **BAXI COMBI dimensions & clearances**



Pre-heat function  
(Instant 80s only)



9.8 litres per minute  
raised by 35°C



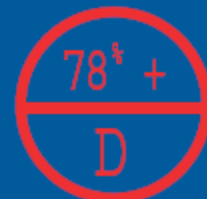
The output to central  
heating is 24kW



10 LED status indicators



Independent controls for  
hot water and central  
heating



SEDBUK Rating  
(COMBI Instant 80s 78.6%)

## **BAXI COMBI**



### **BAXI COMBI 80Eco**

The BAXI COMBI 80Eco is a value for money combination boiler which is designed with the budget conscious user in mind. Providing 24kW output to central heating and domestic hot water, the boiler is suitable for almost every requirement.

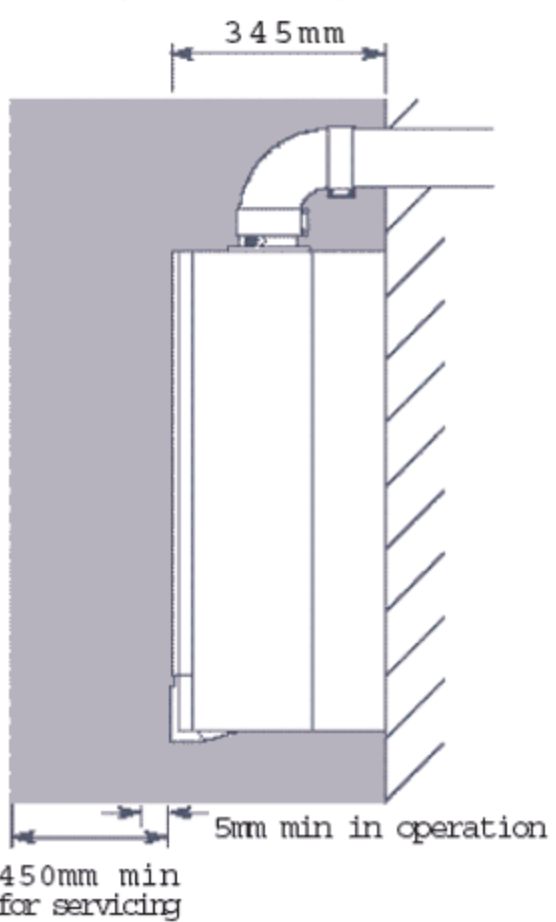
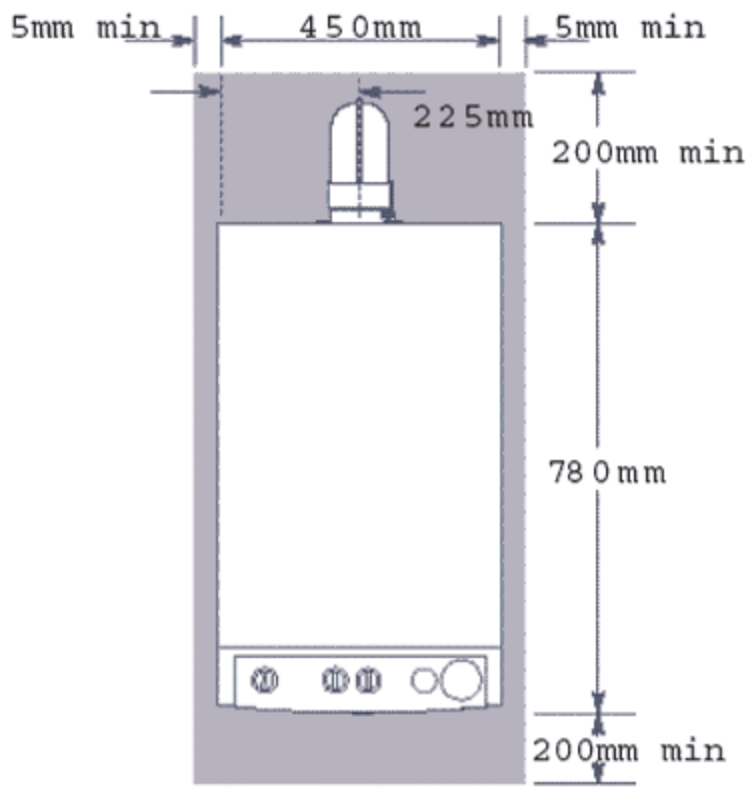
Domestic hot water is provided at 9.8 litres per minute raised by 35°C The automatic electronic ignition and three LED status indicators give simple control and basic diagnostic functions.

The BAXI COMBI 80Eco features an operating mode selector switch and independent controls for both central heating and hot water temperatures. The unit's output automatically modulates to further maximise economy.

A wide range of flueing options allow the boiler to be installed just about anywhere. BAXI offer an optional range of boiler controls and timers maximising comfort and economy.

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### **BAXI COMBI dimensions & clearances**



9.8 litres per minute raised by 35°C



The output to central heating is 24kW



3 LED status indicators



Independent controls for hot water and central heating



SEDBUK Rating

## **BAXI COMBI**



### **BAXI COMBI Maxflow WM**

The WM (Wall Mounted) Maxflow is designed for wall mounted installations and frees space for other appliances or worktops. Combining the benefits of the combination and traditional central heating systems, the BAXI Combi Maxflow WM delivers an impressive 16 litres per minute of hot water at temperatures up to 65°C.

This is achieved until the 54 litre storage cylinder built into the boiler is exhausted. The store is sufficient to fill an average bath and once a tap is turned off, will automatically replenish the store with hot water. The temperature of the stored hot water can be adjusted and controlled independently of the central heating temperature.

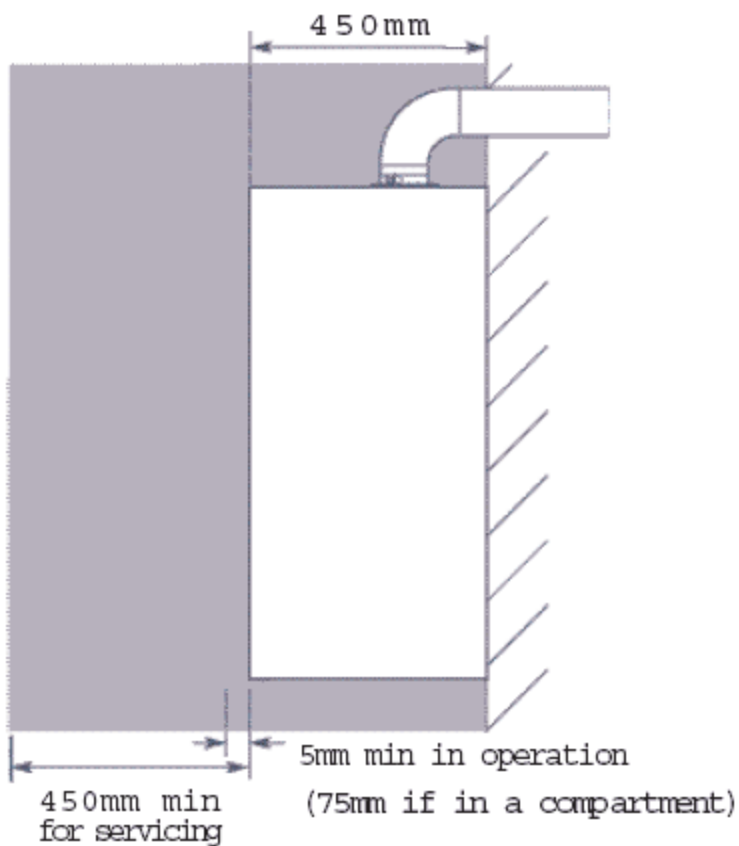
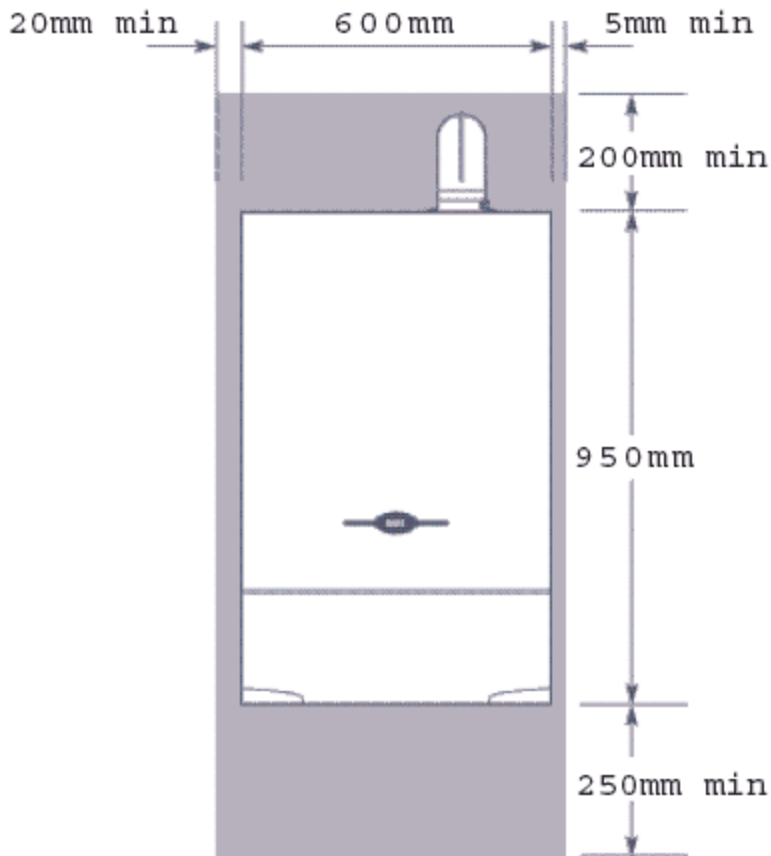
Economy is maximised through modulating technology which controls output and the boiler is supplied with a separate expansion vessel for use with the unvented hot water store (this must be installed adjacent to the boiler in compliance with Building Regulations).

With all the flexibility of flueing, electronic ignition and six LED status indicators, the BAXI Combi Maxflow WM is the boiler for larger households.

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### **BAXI COMBI dimensions & clearances**





up to 16 litres per minute  
up to 65°C



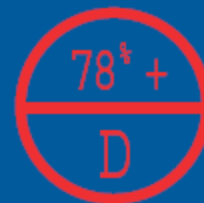
The output to central heating is 28kW



6 LED status indicators



Independent controls for hot water and central heating



SEDBUK Rating

## **BAXI COMBI**



### **BAXI COMBI Maxflow FS**

The FS (Floor Standing) Maxflow is designed for installations where space is not at premium or a suitable wall is not available. Combining the benefits of the combination and traditional central heating systems, the BAXI Combi Maxflow FS delivers an impressive 16 litres per minute of hot water at temperatures up to 65°C.

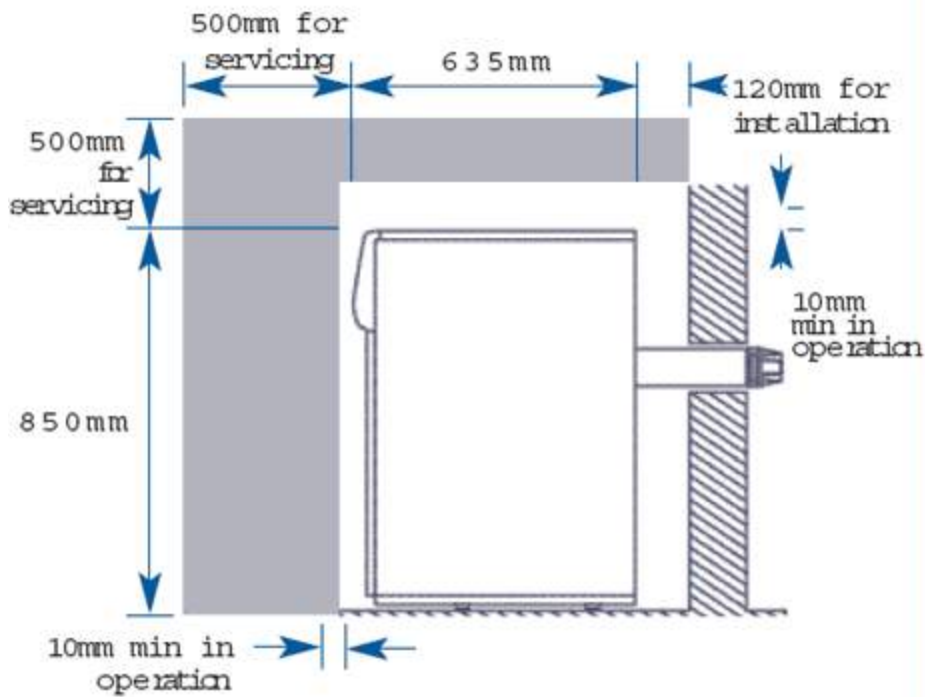
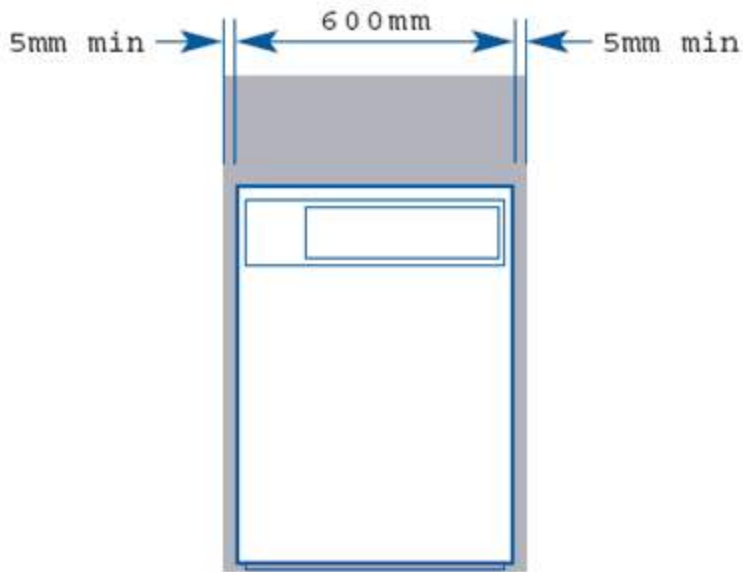
This is achieved until the 54 litre storage cylinder built into the boiler is exhausted. The store is sufficient to fill an average bath and once a tap is turned off, will automatically replenish the store with hot water. The temperature of the stored hot water can be adjusted and controlled independently of the central heating temperature.

Economy is maximised through modulating technology which controls output and the boiler is supplied with a separate expansion vessel for use with the unvented hot water store (this must be installed adjacent to the boiler in compliance with Building Regulations).

With all the flexibility of flueing, electronic ignition and six LED status indicators, the BAXI Combi Maxflow FS is the boiler for larger households.

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### **BAXI COMBI dimensions & clearances**



up to 16 litres per minute  
up to 65°C



The output to central  
heating is 20kW



6 LED status indicators



Independent controls for  
hot water and central  
heating

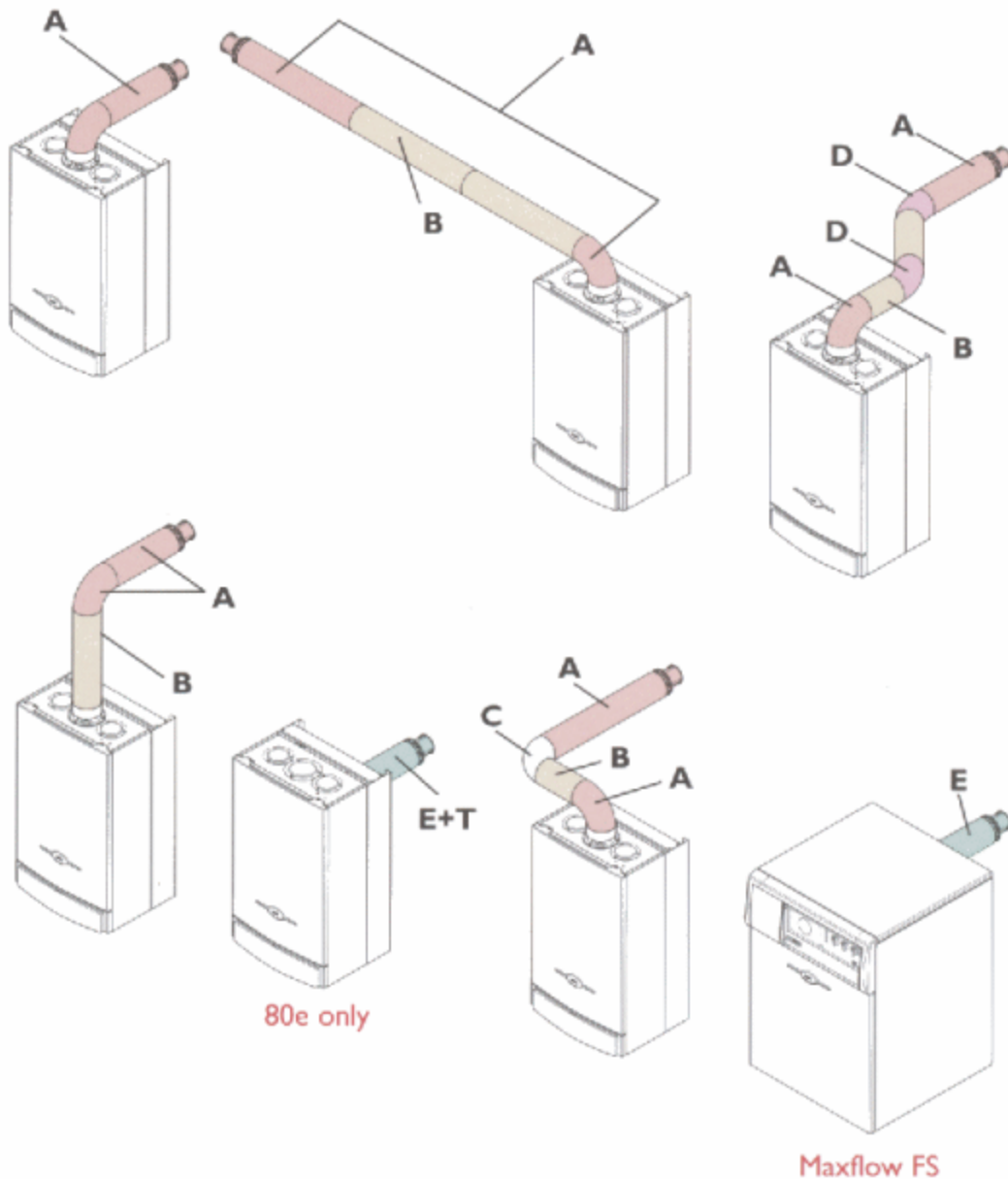


SEDBUK Rating

### BAXI COMBI Boilers flue options

BAXI COMBI 105e, COMBI Instant 105e, COMBI Instant 80e, COMBI 80e, COMBI 80Eco, COMBI Maxflow WM & COMBI Maxflow FS.

Concentric Flue System



*Note: These are general illustrations only – detailing of actual components will vary from model to model.*

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### Concentric Horizontal

Key Accessory	Size	Baxi Code
<b>Concentric Flue System 100mm diameter</b>		
A Horizontal flue kit (including 90° elbow)	1000mm	247719
B Straight extension kit	1000mm	247723
	500mm	247724
	250mm	248189
C Bend kit	90°	247725
D Bend kit	135°	247726
	Bend kit (pair)	135°
E Horizontal terminal (without 90° elbow)	750mm	248878

**T** In-case rear flue adaptor kit (Combi 80e only)  
 used in conjunction with kit 248878 (E) or  
 standard flue 247719 (A)

248220

**Maximum equivalent flue lengths**

For maximum permissible equivalent flue lengths refer to maximum flue lengths on the back page fold out section.

**Flue accessories**

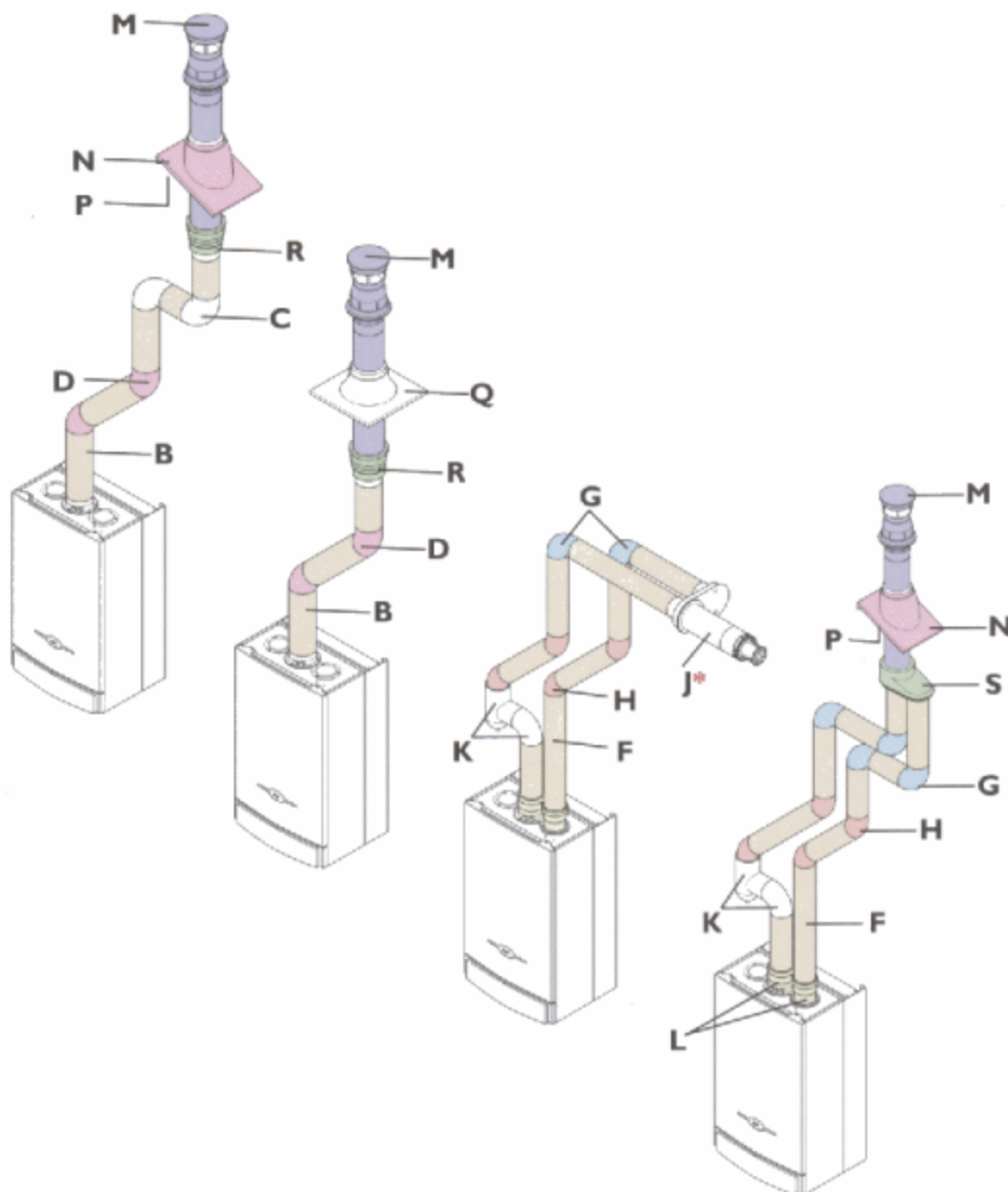
Wall liner/internal flue fixing kit		236441BAX
Pipe support	100mm dia	241105
Pipe support	80mm dia	238684

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**BAXI COMBI Boilers flue options**

**BAXI COMBI 105e, COMBI Instant 105e, COMBI Instant 80e, COMBI 80e, COMBI 80Eco, COMBI Maxflow WM & COMBI Maxflow FS.**

**Vertical Concentric and Twin Flue Systems**



*Note: These are general illustrations only – detailing of actual components will vary from model to model.*

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## Vertical and Twin

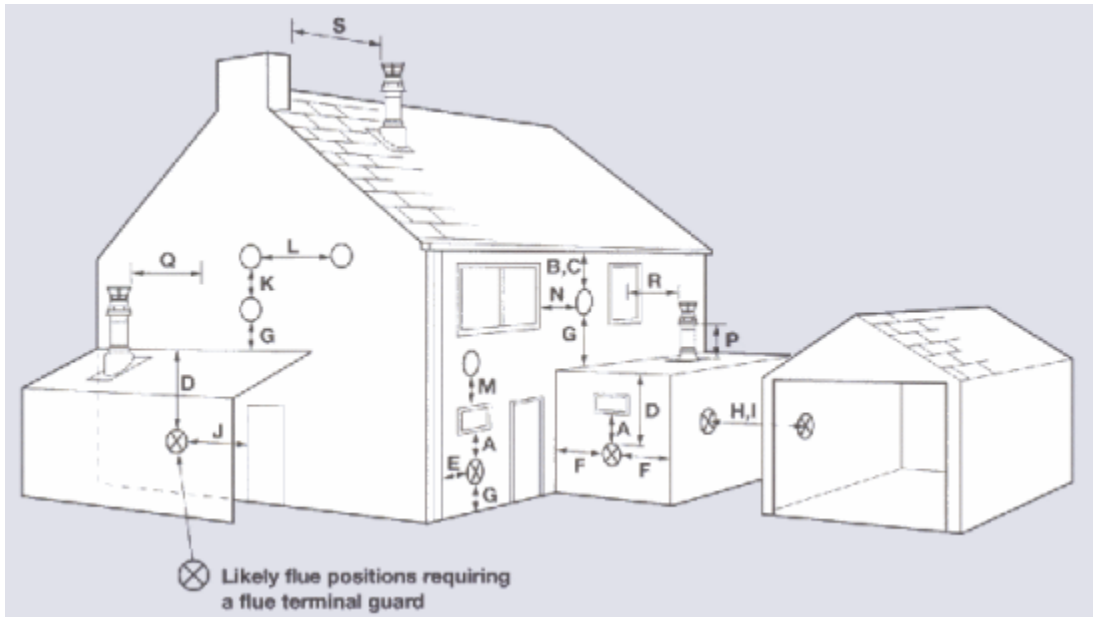
Key Accessory	Size	Baxi Code
<b>Concentric Flue System 100mm diameter</b>		
<b>B</b> Straight extension kit	1000mm	247723
	500mm	247724
	250mm	248189
<b>C</b> Bend kit	90°	247725
<b>D</b> Bend kit	135°	247726
	Bend kit (pair)	135°
<b>Universal Vertical Flue Kits</b>		
<b>L</b> Twin flue adaptor kit	80/105 series	248222
	Maxflow series	247779
<b>M</b> Vertical roof terminal		246140
<b>N</b> Universal roof tile	25°/45°	246141
	35°/55°	246142
<b>P</b> Roof cover plate kit		246143
<b>Q</b> Flat roof flashing		246144
<b>R</b> Roof terminal adaptor (concentric)		247940
<b>S</b> Roof terminal adaptor (twin)		247922
<b>Twin Flue System 80mm diameter</b>		
<b>F</b> Straight extension kit	1000mm	246137
	500mm	246136
	250mm	246135
<b>G</b> Bend kit	90°	246139
<b>H</b> Bend kit (pair)	135°	246138
<b>J</b> Horizontal terminal kit (twin flue)		247791
	*ONLY 80Eco, Instant 80e, 80e and Maxflow WM.	
<b>K</b> Condensate collector kit (only required when flue system in excess of 6 metres)		248443

**For flue accessories codes go to page 14.**

*Note: If vertical terminal (246140) passes through a decorative ceiling then a roof cover plate is recommended (246143) for decorative finish on internal face.*

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## BAXI COMBI minimum flue terminal clearances



For IE, refer to I.S. 813 "Domestic Gas Installation".

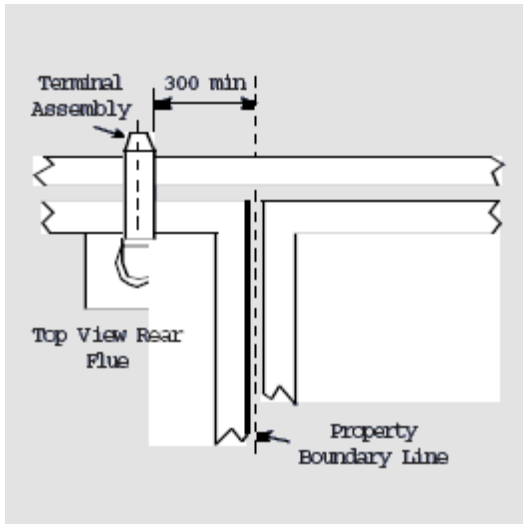
**BAXI COMBI 105e, COMBI Instant 105e, COMBI Instant 80e, COMBI 80e, COMBI 80Eco, COMBI Maxflow WM & COMBI Maxflow FS minimum flue clearances.**

<b>Terminal position with minimum distance (mm)</b>	<b>mm</b>
<b>A</b> Directly below an openable window, air vent or any other ventilation opening	300
<b>B</b> Below gutter, drain/soil pipe	25
<b>C</b> Below eaves	25
<b>D</b> Below a balcony/carport roof	25
<b>E</b> From vertical drain pipes and soil pipes	25
<b>F</b> From internal or external corners	25
<b>G</b> Above adjacent ground or balcony level	300
<b>H</b> From a surface facing the terminal	600
<b>I</b> Facing terminals	1200
<b>J</b> From opening (door/window) in carport into dwelling	1200
<b>K</b> Vertically from a terminal on the same wall	1500
<b>L</b> Horizontally from a terminal on the same wall	300
<b>M</b> Above an opening, air brick, opening window, etc	300
<b>N</b> Horizontally to an opening, air brick, opening window, etc	300
<b>P</b> Above the roof level (to base of terminal)	300
<b>Q</b> From adjacent wall to flue	300
<b>R</b> From an adjacent opening window	1000
<b>S</b> From another terminal	600

**Note:** The distance from a fanned draught appliance terminal installed parallel to a boundary may not be less than 300mm in accordance with the diagram below.

Please refer to the latest regulations in force for confirmation and full details of flue installation.

In addition, the terminal should not be nearer than 150mm to an opening in the building fabric formed for the purpose of accommodating a built-in element such as a window frame. See BS 5440 Pt. 1.



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### **BAXI High Efficiency Boilers**



#### **BAXI COMBI 130 HE**

The BAXI COMBI 130 HE combination boiler utilises the latest in condensing technology to produce a high efficiency boiler that delivers a truly exceptional hot water flow rate.

High Efficiency combination boilers offer householders the opportunity to save on both heating and hot water, operating more economically than standard efficiency products.

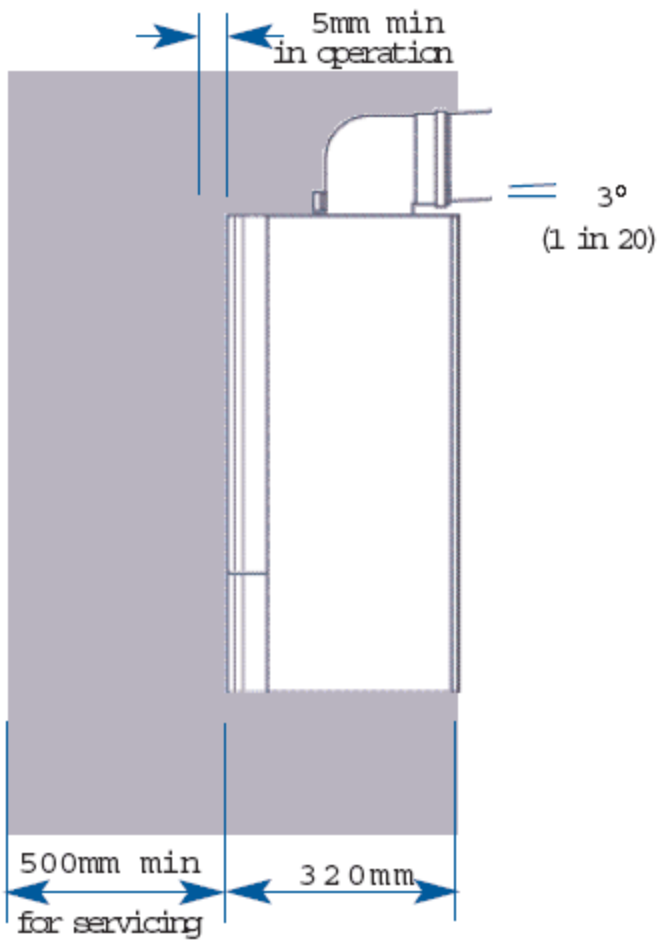
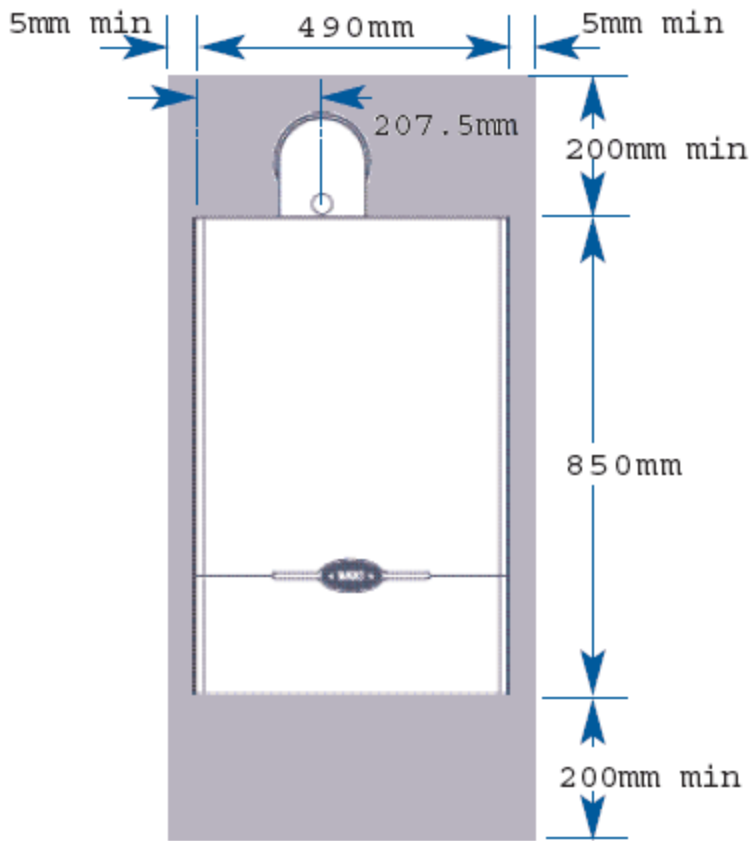
Output to domestic hot water is 39kW providing 16 litres per minute flowrate raised by 35°C. The output to central heating is up to 31.4kW (condensing) and as such is suitable for larger homes. A stylish casing conceals the user controls and diagnostic functions which are located behind the drop down panel.

A key feature of the BAXI COMBI 130 HE is the intelligent hot water pre-heat, which monitors the domestic hot water demand. The following weeks demand is anticipated and ensures that hot water delivery from the boiler is instantaneous at a usable temperature. The feature requires no adjustment and is fully automatic. It can easily be turned off if required. An extensive range of flueing options make for very flexible siting of the appliance.

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### **BAXI High Efficiency dimensions & clearances**





Efficiency up to 93%  
equates to large savings  
on gas bills



Automatic modulation  
of output between  
10.6kW and 30kW



Electronic ignition

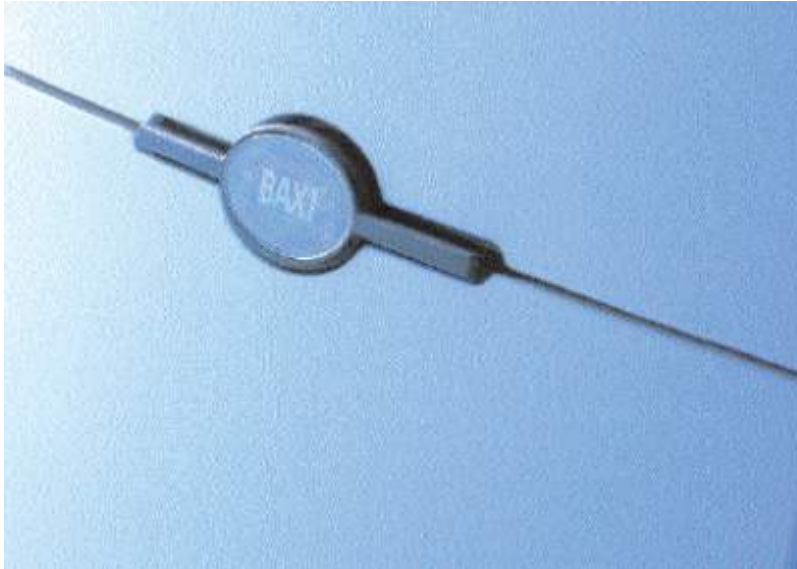


Ecological performance



SEDBUK Rating

## **BAXI High Efficiency Boilers**



### **Baxi 100 HE**

Concealed by the gracefully curved and gleaming white casing of the BAXI 100 HE is a highly sophisticated aluminium "heat engine" and control system aimed at saving money day after day, year after year.

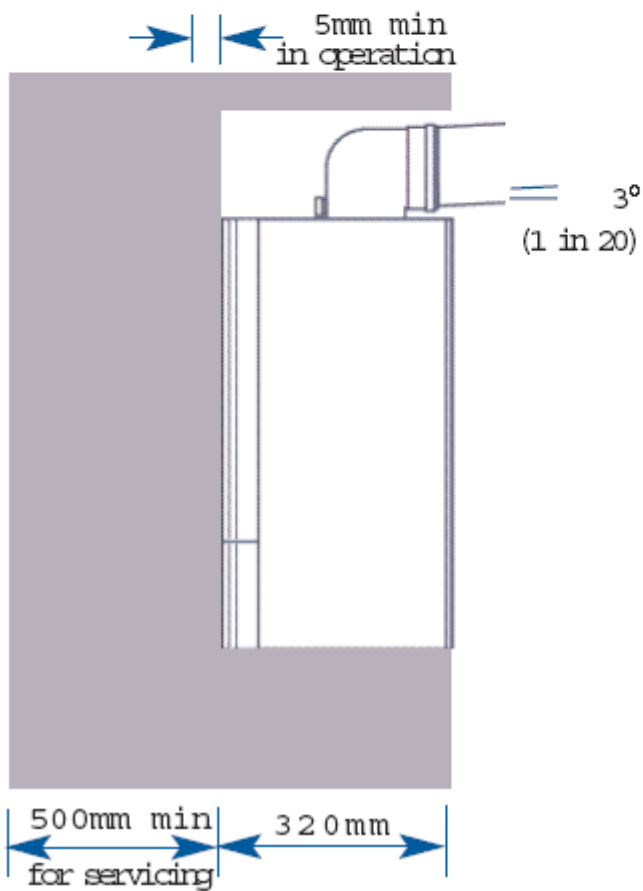
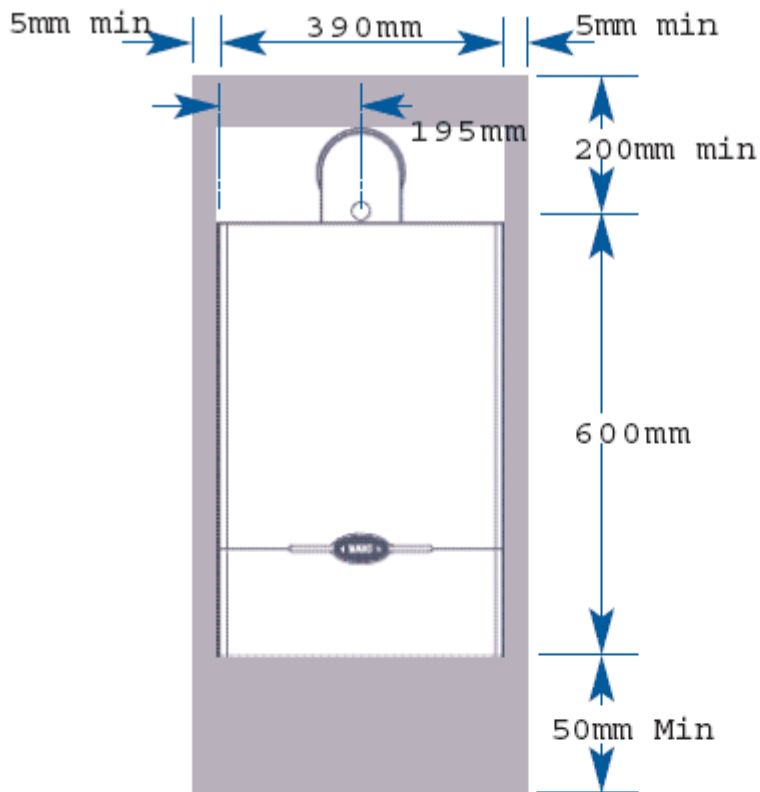
The latest technology in manufacturing ensures that this unique design of heat exchanger combined with a revolutionary ceramic burner and advanced microprocessor squeezes up to 19% more heat from the same amount of fuel used as a standard efficiency boiler.

When replacing an older boiler the BAXI 100 HE will produce even bigger savings. The intelligent control system of the BAXI 100 HE automatically adjusts the heat output to always match the demand up to 32.6kW (Condensing).

Therefore the boiler is equally at home in a two bedroom terraced house or a large five bedroom property. An optional built in electronic programmer further increases comfort and economy.

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### **BAXI High Efficiency dimensions & clearances**



Efficiency up to 93% equates to large savings on gas bills



Automatic modulation of output between 9.1kW and 30.2kW



Electronic ignition



Ecological performance

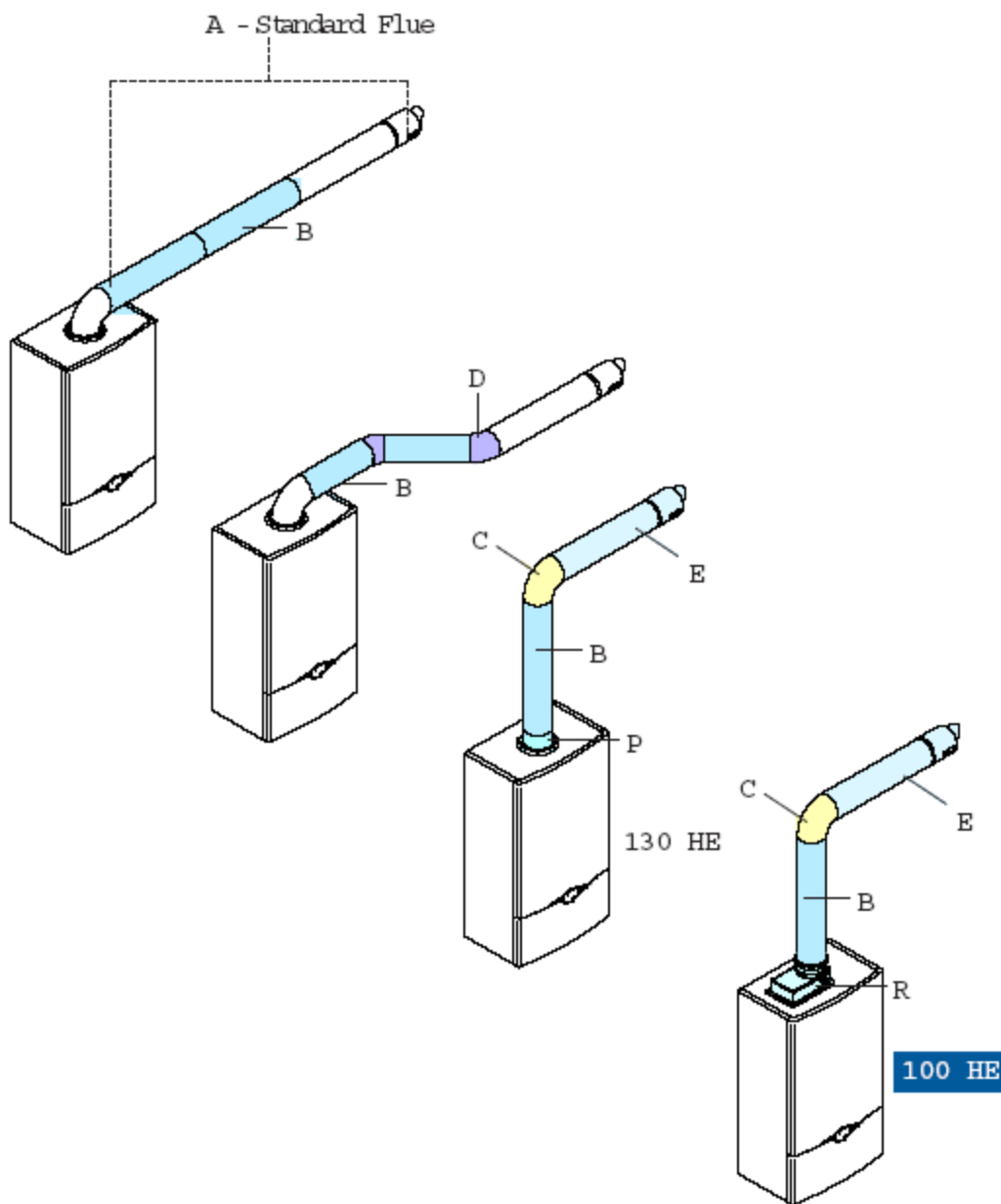


SEDBUK Rating

## BAXI High Efficiency Boilers flue options

BAXI COMBI 130 HE and BAXI 100 HE.

### Concentric Flue System



*Note: These are general illustrations only – detailing of actual components will vary from model to model.*

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### Concentric Horizontal

#### Key Accessory

#### Concentric Flue System 110mm diameter

	Size	Baxi Code
A Horizontal flue kit (including 90° elbow)	850mm	236921
B Straight extension kit	1000mm	241695
	500mm	241694
	250mm	241692
	93°	241687
C Bend kit	93°	241687
D Bend kit (pair)	135°	241689
E Horizontal flue terminal		243013BAX

<b>P</b>	Boiler connection vertical concentric (for 130 HE only)	242886
<b>R</b>	Vertical Flue Adaptor (for 100 HE only)	5106888
	Clamp	110mm 243014BAX

**Maximum equivalent flue lengths**

For maximum permissible equivalent flue lengths refer to maximum flue lengths on the back page fold out section.

Any additional "in line" bends in the flue system must be taken into consideration. Their equivalent lengths are:

Concentric Pipes:	135° bend	0.5 metres
	93° bend	1.0 metres

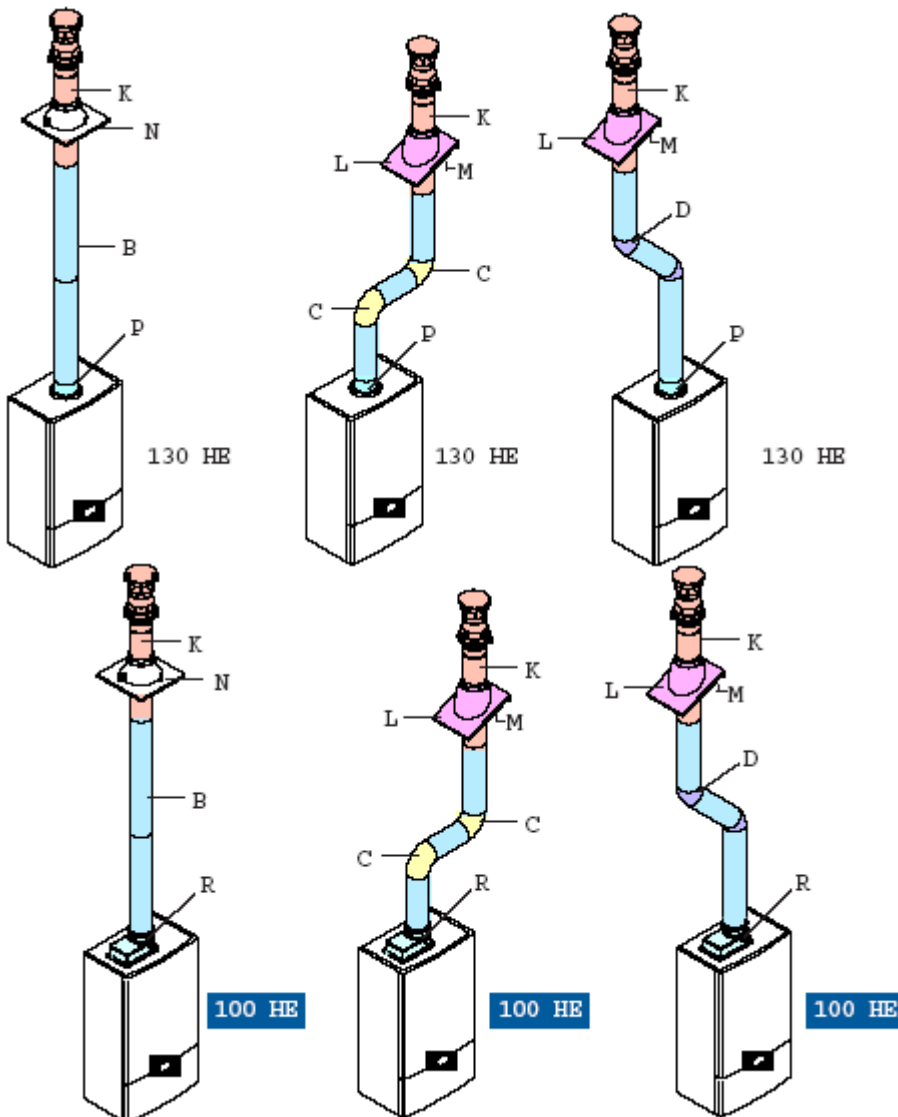
**Flue accessories**

Wall liner/internal flue fixing kit		236441BAX
Pipe support	110mm dia	243014BAX

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**BAXI High Efficiency Boilers flue options**

**BAXI COMBI 130 HE and BAXI 100 HE.**



*Note: These are general illustrations only – detailing of actual components will vary from model to model.*

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## Vertical

Key Accessory	Size	Baxi Code
<b>Universal Vertical Flue Kits</b>		
<b>B</b> Straight extension kit	1000mm	241695
	500mm	241694
	250mm	241692
<b>C</b> Bend kit	93°	241687
<b>K</b> Vertical flue terminal		242802
<b>L</b> Universal roof tile	25°/50°	243015
<b>M</b> Roof cover plate kit		243131
<b>N</b> Flat roof flashing		243016BAX
<b>P</b> Boiler connection vertical concentric (for 130 HE only)		242886
<b>R</b> Vertical Flue Adaptor (for 100 HE only)		5106888
	Clamp	80mm

### Maximum equivalent flue lengths

For maximum permissible equivalent flue lengths refer to maximum flue lengths on the back page fold out section.

Any additional "in line" bends in the flue system must be taken into consideration. Their equivalent lengths are:

Concentric Pipes:	135° bend	0.5 metres
	93° bend	1.0 metres

### Flue accessories

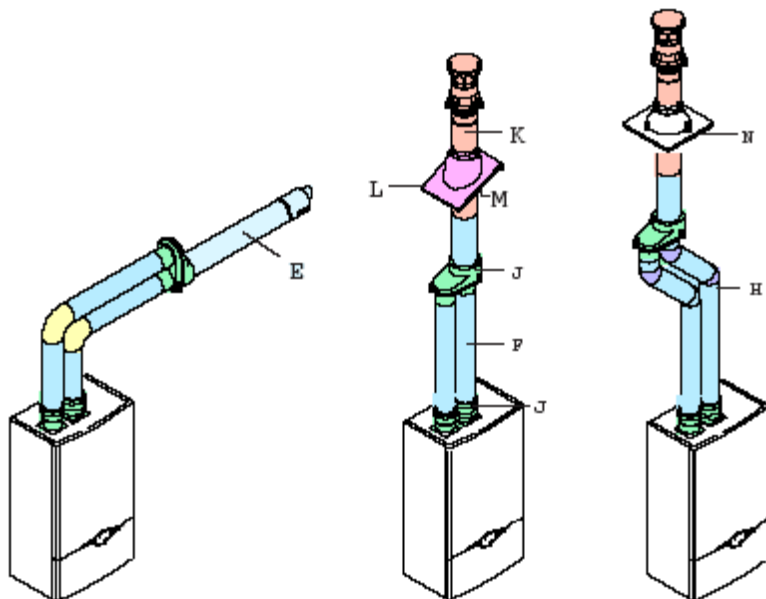
Wall liner/internal flue fixing kit		236441BAX
Pipe support	110mm dia	243014BAX

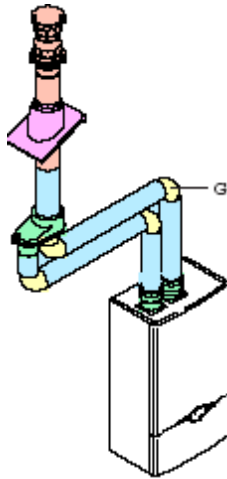
*Note: If vertical terminal (242802) passes through a decorative ceiling then a roof cover plate is recommended (243431) for decorative finish on internal face.*

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## BAXI High Efficiency Boilers flue options

**BAXI COMBI 130 HE and BAXI 100 HE.**





The following is a worked example referring to the system diagram below.

	Air Duct example			Flue Duct example		
	Equivalent Length value	No. of fittings/pipes	Sub total	Equivalent Length value	No. of fittings/pipes	Sub total
1m extension	1m	3	3m	2m	3	6m
135° bend	1.3m	0	0m	2.6m	0	0m
90° bend	4.8m	2	9.6m	9.6m	2	19.2m
Equivalent length air duct	12.6m			25.2m		
Total equivalent length for this example is 12.6m + 25.2m = 37.8						

*Note: These are general illustrations only – detailing of actual components will vary from model to model.*

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## Twin

Key Accessory	Size	Baxi Code
<b>Twin Flue System 80mm diameter</b>		
<b>E</b> Horizontal flue terminal		243013BAX
<b>F</b> Straight extension kit	1000mm	238690
	500mm	238692
	250mm	238694
<b>G</b> Bend kit	90°	246139
<b>H</b> Bend kit	135°	246138
<b>J</b> Twin flue adaptor kit		242757
<b>K</b> Vertical flue terminal		242802
<b>L</b> Universal roof tile	25°/50°	243015
<b>M</b> Roof cover plate kit		243131
<b>N</b> Flat roof flashing		243016BAX

## Maximum equivalent flue lengths

For maximum permissible equivalent flue lengths refer to maximum flue lengths on the back page fold out section.

Any additional "in line" bends in the flue system must be taken into consideration. Their equivalent lengths are:

Twin Flue Pipe:	135° bend (air duct)	1.3 metres
	135° bend (flue duct)	2.6 metres
	90° bend (air duct)	4.8 metres
	90° bend (flue duct)	9.6 metres

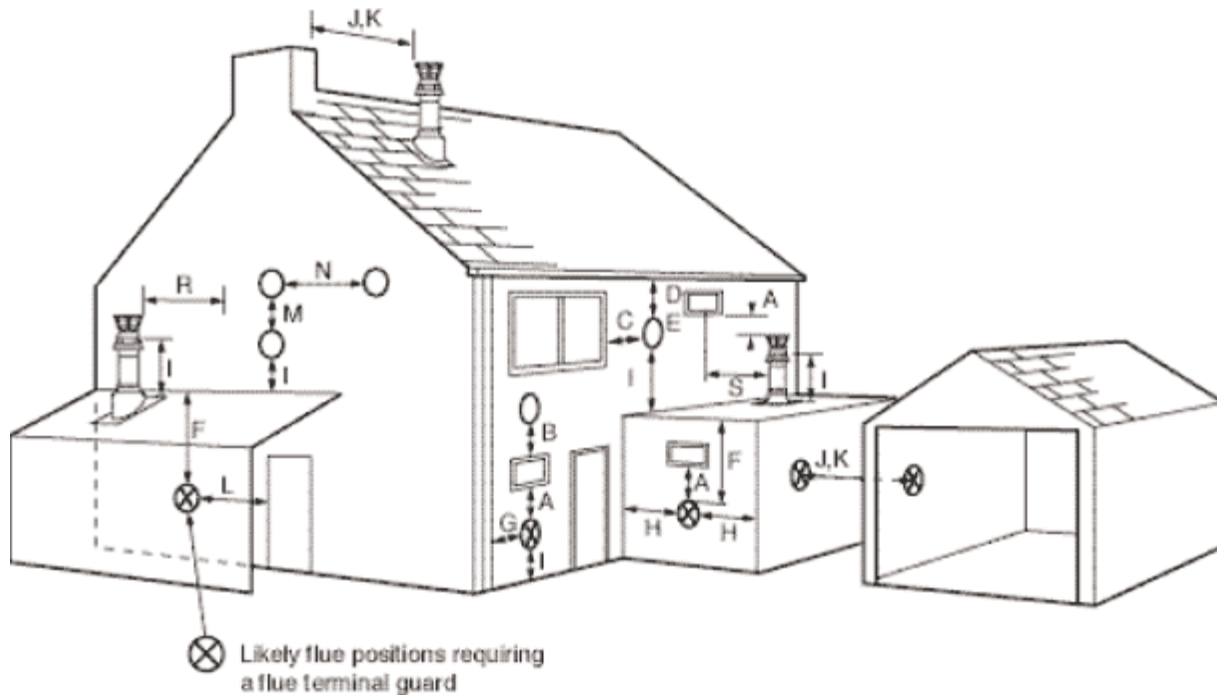
## Flue accessories

Wall liner/internal flue fixing kit		236441BAX
Pipe support	110mm dia	243014BAX
Pipe support	80mm dia	238684

*Note: If vertical terminal (242802) passes through a decorative ceiling then a roof cover plate is recommended (243431) for decorative finish on internal face.*

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## BAXI HE minimum flue terminal clearances



For IE, refer to I.S. 813 "Domestic Gas Installation".

### BAXI COMBI 130 HE and BAXI 100 HE minimum flue clearances.

Terminal position with minimum distance (mm)	mm
<b>A</b> Directly below an opening, air brick, opening windows, etc.	300
<b>B</b> Above an opening, air brick, opening window etc.	300
<b>C</b> Horizontally to an opening, air brick, opening window etc.	300
<b>D</b> Below gutters, soil pipes or drain pipes.	25
<b>E</b> Below eaves.	25
<b>F</b> Below balconies or car port roof.	25
<b>G</b> From a vertical drain pipe or soil pipe	25
<b>H</b> From an internal (i) or external (ii) corner	(i) 25 (ii) 115
<b>I</b> Above ground, roof or balcony level.	300
<b>J</b> From a surface facing a terminal.	600
<b>K</b> From a terminal facing a terminal (Horizontal flue).	1200
From a terminal facing a terminal (Vertical flue).	600
<b>L</b> From an opening in carport (e.g. door, window) into the dwelling.	1200
<b>M</b> Vertically from a terminal on the same wall.	1500
<b>N</b> Horizontally from a terminal on the same wall.	300
<b>R</b> From an adjacent wall to flue (vertical only).	300
<b>S</b> From an adjacent opening window (vertical only).	1000

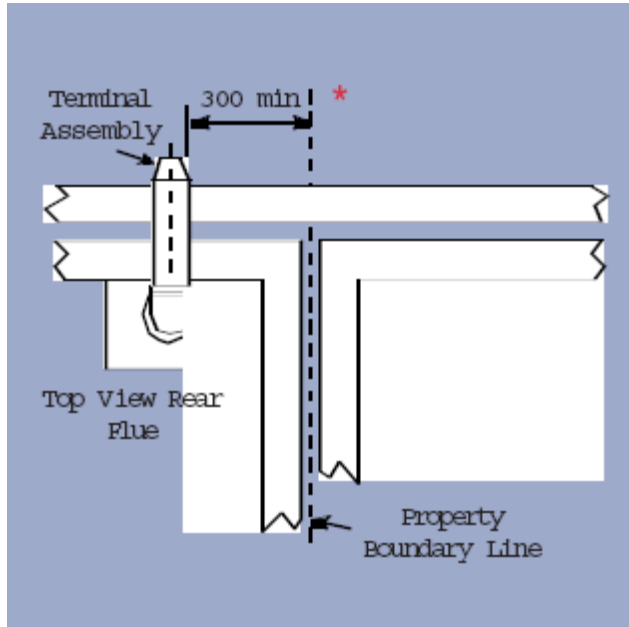


**NOTE:** The distance from a fanned draught appliance terminal installed parallel to a boundary may not be less than 300mm in accordance with the diagram below.

\* Reduction to the boundary is possible down to 25mm but the flue deflector kit (part no. 248167) must be fitted.

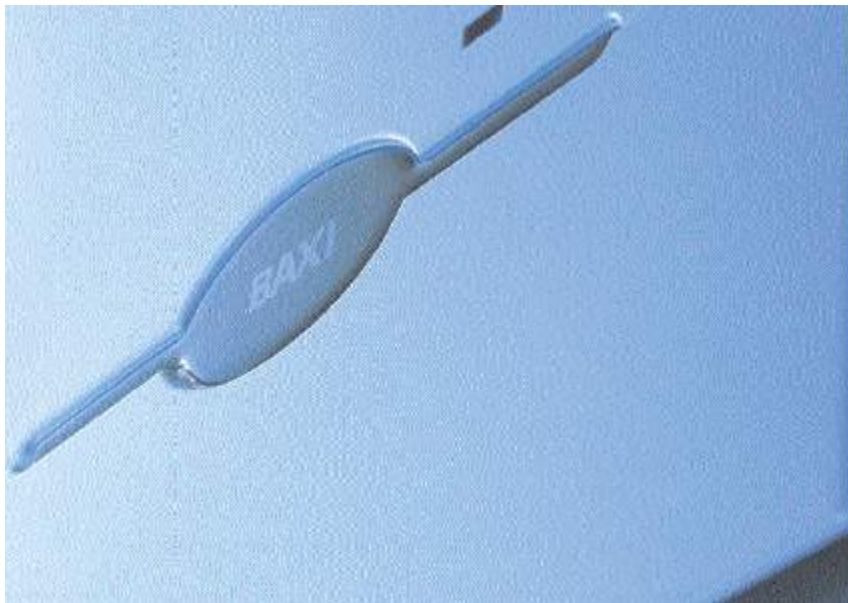
In addition, the terminal should be no nearer than 150mm to an opening in the building fabric formed for the purpose of accommodating a built-in element such as a window frame. See BS 5440 Pt. 1.

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## **BAXI Wall Mounted Boilers**



### **BAXI Solo 3 PFL**

The Baxi Solo 3 PFL is compact enough to fit inside standard kitchen units without the need for ventilation.

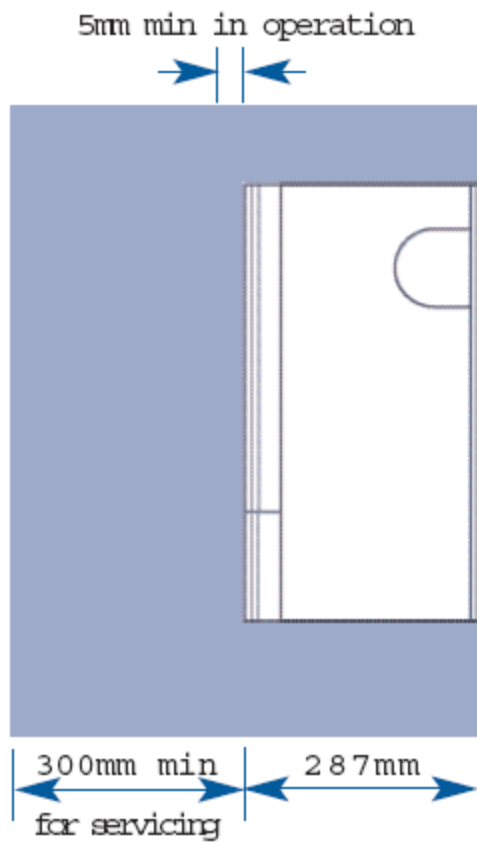
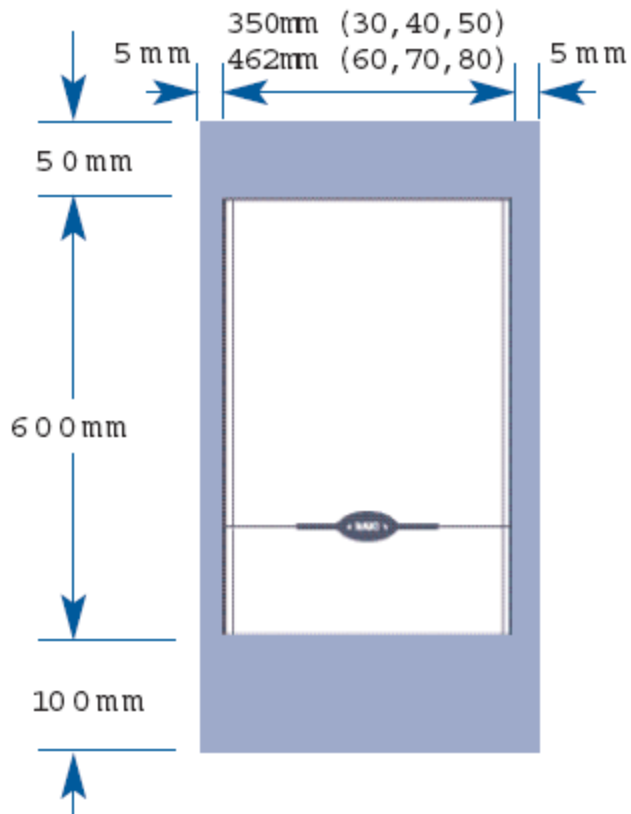
The robust cast iron heat exchanger is light, reliable and durable. It is quiet and efficient in operation. Powered fluing allows the boiler to be fitted almost anywhere.

Electronic ignition negates the need for a pilot light, further saving gas. The Baxi Solo's unique ledge and latch system ensures that installation could not be simpler.

With six models in the range there is a Baxi Solo 3 PFL for virtually every domestic installation from 8.8kW up to 23.4kW.

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## **BAXI Wall Mounted Boilers dimensions & clearances**



Compact



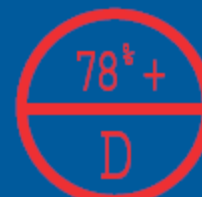
Electronic Ignition



Lift and latch

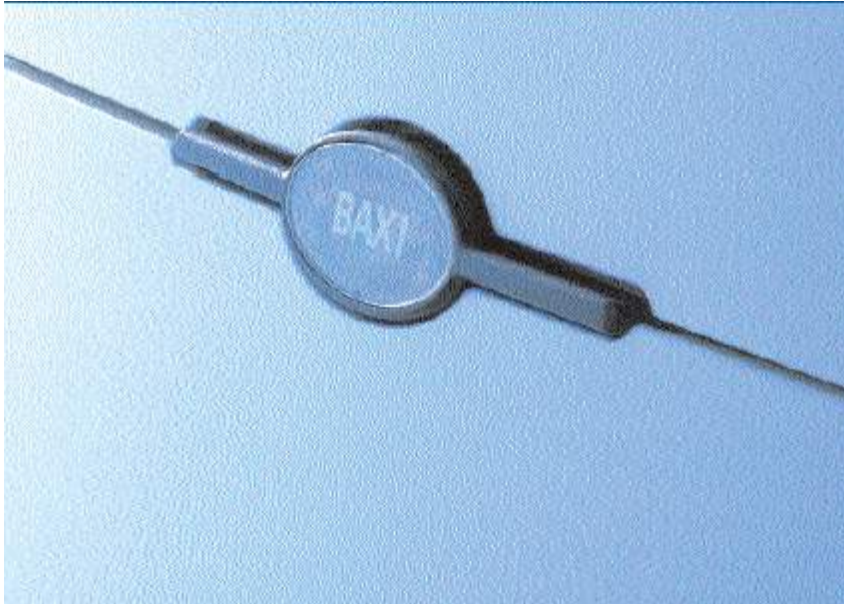


Low lift weight



SEDBUK Rating

## **BAXI Wall Mounted Boilers**



### **BAXI Solo 3 PFL System**

A range of six BAXI Solo 3 PFL System boilers provides a compact solution where conventional open vented systems are impossible. Built into the very attractively styled casing are the expansion vessel, circulating pump and pressure relief valve.

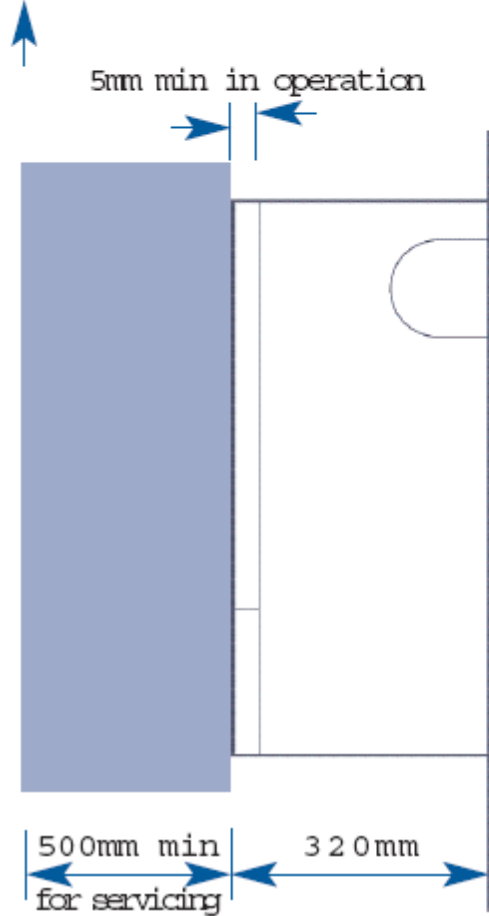
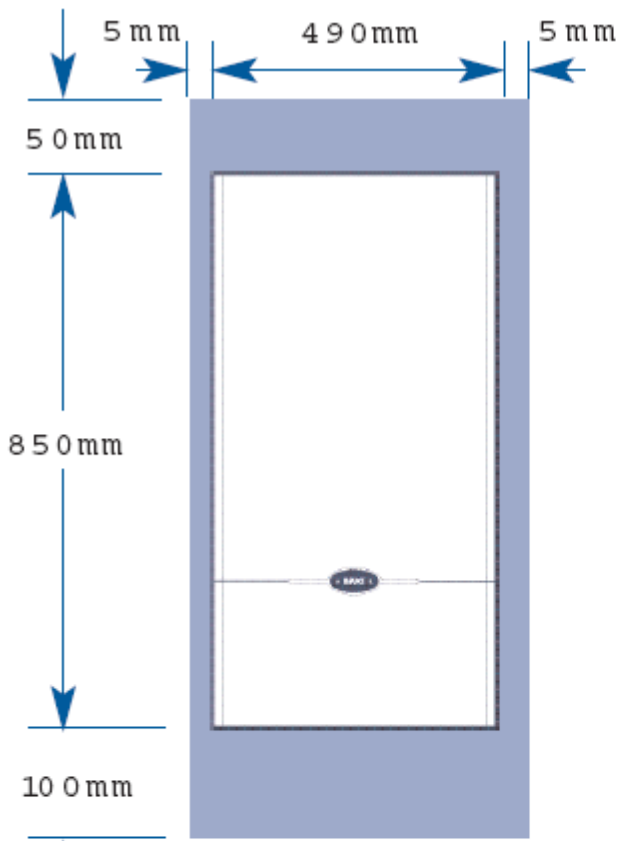
This negates the need for an expansion tank in the loft space and is therefore perfect for installation in flats or where a 'dry roof space' is required. The range offers outputs from 8.8kW to 23.4kW.

Reliability and long life are designed into the Solo range with proven electronics and a robust highly efficient cast iron heat exchanger.

The BAXI Solo 3 PFL System boiler components are all assembled and tested during the manufacturing process, ensuring a simple time saving installation. Isolating valves and a pre-plumbing bracket further simplify the installation process.

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### **BAXI Wall Mounted Boilers dimensions & clearances**



Compat



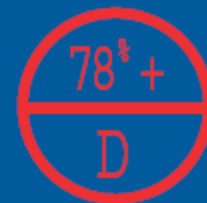
Electronic Ignition



Lift and latch

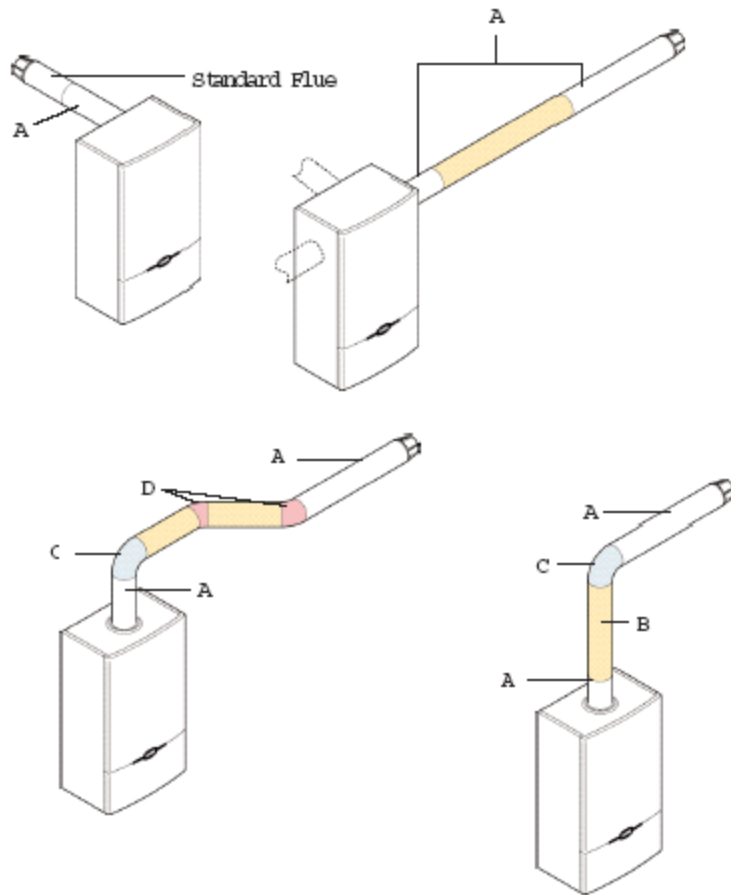


Low lift weight



SEDOUK Rating

**BAXI Wall Mounted flue options**  
**BAXI Solo 3 PFL & BAXI Solo 3 PFL System**  
**Concentric Flue System**



*Note: These are general illustrations only – detailing of actual components will vary from model to model.*

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**Concentric Horizontal**

Key Accessory	Size	Baxi Code
<b>Concentric Flue System 100mm diameter</b>		
A Horizontal flue kit (90° elbow not included)	500mm	244082
B Straight extension kit	1000mm	246115
	500mm	246114
	250mm	246113
C Bend kit	90°	246133
D Bend kit (pair)	135°	246132

**Maximum equivalent flue lengths**

For maximum permissible equivalent flue lengths refer to maximum flue lengths on the back page fold out section.

**Flue accessories**

Flue internal fitting kit (walls 100-280mm)		236441BAX
Outsized brown rectangular flue trim (500 × 430mm) when replacing natural draught appliance with fanned flue		243468
Pipe support	100mm dia	241105
Pipe support	80mm dia	238684

**Flue calculation example:**

Standard horizontal flue extended and offset horizontally with 2 × 135° bends

Maximum permissible total horizontal length = 4m

less length of standard flue kit = 1m

less 2 × 135° bends @ equivalent 0.5m each = 1m

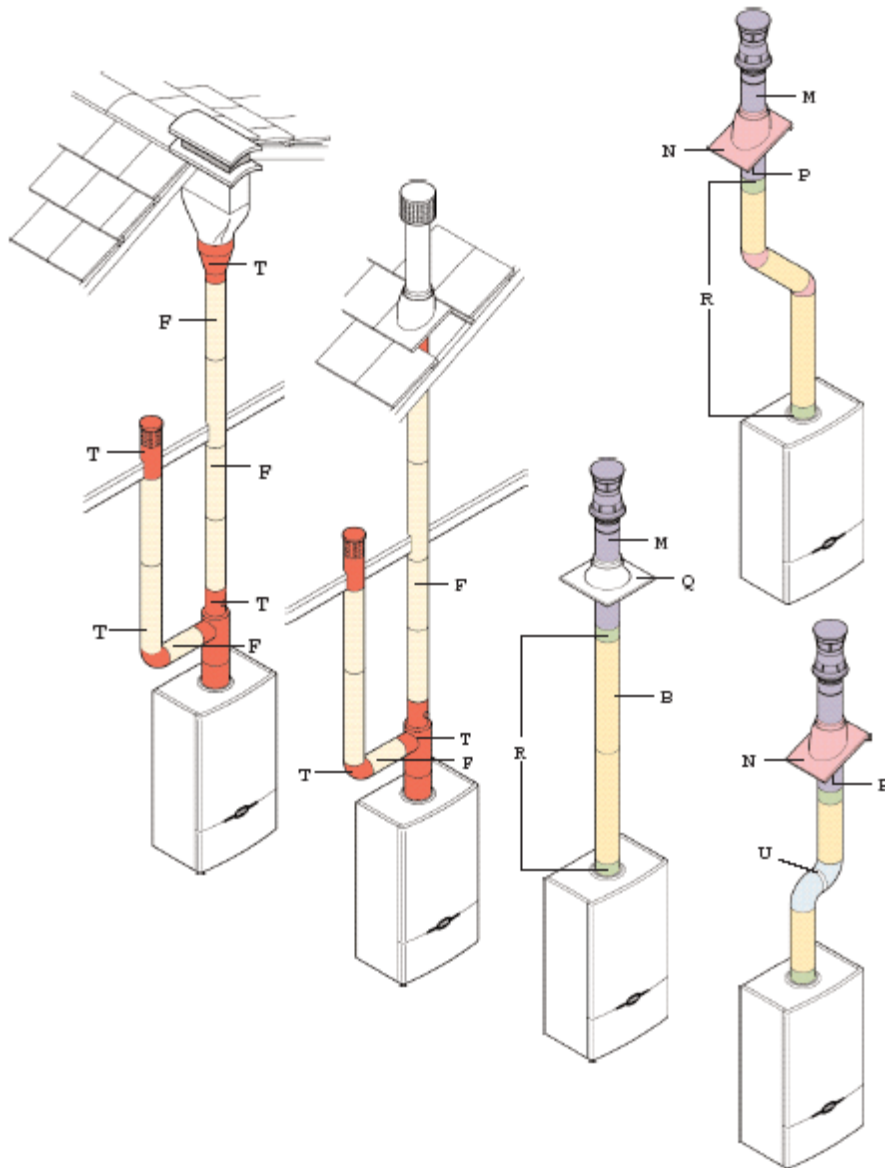
Therefore permissible total length of extensions = 2m

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**BAXI Wall Mounted flue options**

**BAXI Solo 3 PFL & BAXI Solo 3 PFL System**

**Universal Vertical Flue Kits**



*Note: These are general illustrations only – detailing of actual components will vary from model to model.*

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**Vertical**

Key Accessory

Size

Baxi Code

### Universal Vertical Flue Kits

<b>B</b>	Straight extension kit	1000mm	246115
		500mm	246114
		250mm	246113
<b>F</b>	Straight extension kit	1000mm	246137
		500mm	246136
		250mm	246135
<b>M</b>	Vertical flue terminal		246140
<b>N</b>	Universal roof tile	25°/45°	246141
		35°/55°	246142
<b>P</b>	Roof cover plate kit		246143
<b>Q</b>	Flat roof flashing		246144
<b>R</b>	Boiler and roof terminal adaptor kit (concentric)		245929
<b>T</b>	Duplex flue kit		247654
<b>U</b>	Bend to bend adaptor		246134

### Flue accessories

Flue internal fitting kit (walls 100-280mm)		236441BAX
Outsized brown rectangular flue trim (500 × 430mm) when replacing natural draught appliance with fanned flue		243468
Pipe support	100mm dia	241105
Pipe support	125mm dia	236621

### Flue calculation example:

Twin pipe vertical flue extended and offset with 2 × 135° bends

Maximum permissible total length = 12m

less 2 × 135° bends (air) @ equivalent 0.25m each = 0.5m

less 2 × 135° bends (flue) @ equivalent 0.25m each = 0.5m

Therefore permissible total length of extensions = 11m

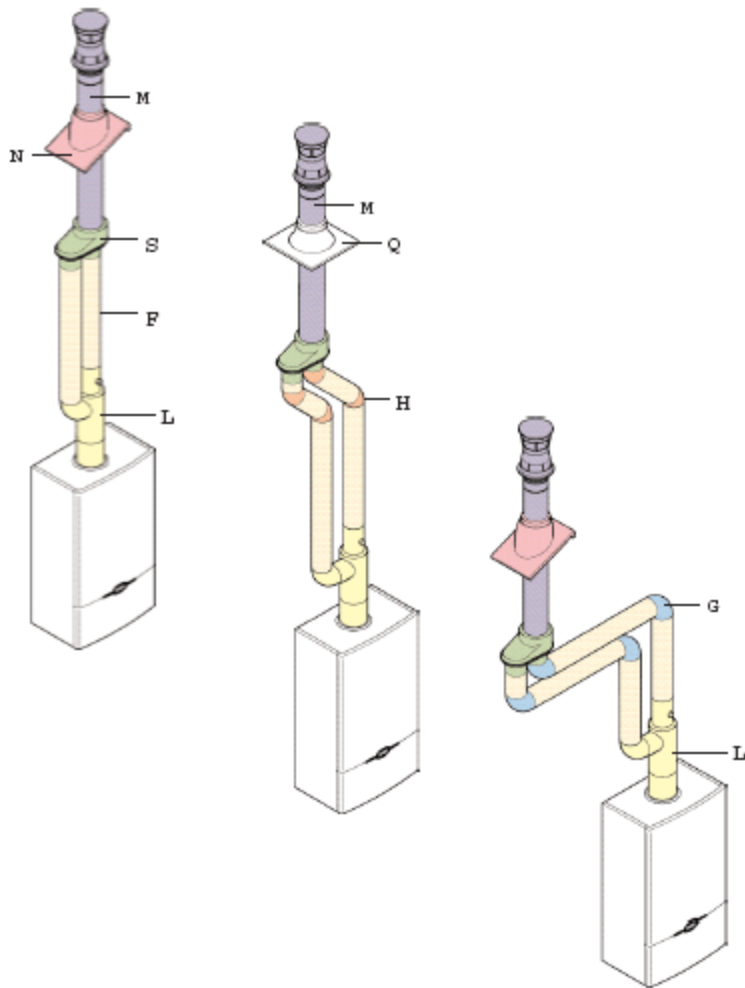
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## BAXI Wall Mounted flue options

### BAXI Solo 3 PFL & BAXI Solo 3 PFL System

#### Twin Flue System





*Note: These are general illustrations only – detailing of actual components will vary from model to model.*

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## Twin

Key Accessory	Size	Baxi Code
<b>Twin Flue System 80mm diameter</b>		
<b>F</b> Straight extension kit	1000mm	246137
	500mm	246136
	250mm	246135
<b>G</b> Bend kit	90°	246139
<b>H</b> Bend kit (pair)	135°	246138
<b>L</b> Twin flue adaptor kit	80/105 series	248222
<b>M</b> Vertical flue terminal		246140
<b>N</b> Universal roof tile	25°/45°	246141
	35°/55°	246142
<b>P</b> Roof cover plate kit		246143
<b>Q</b> Flat roof flashing		246144
<b>S</b> Roof terminal adaptor (twin)		247922
<b>Flue accessories</b>		
Flue internal fitting kit (walls 100-280mm)		236441BAX
Outsized brown rectangular flue trim (500 × 430mm) when replacing natural draught appliance with fanned flue		243468

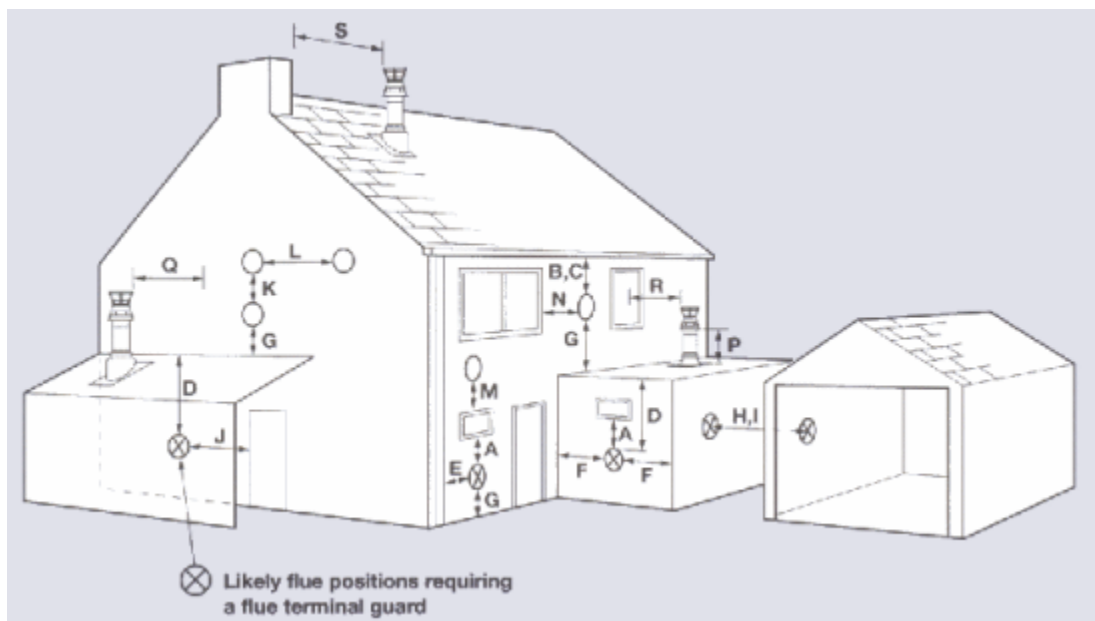
Pipe support	100mm dia	241105
Pipe support	80mm dia	238684
Pipe support	125mm dia	236621

**Flue calculation example:**

Twin pipe vertical flue extended and offset with 2 × 135° bends  
 Maximum permissible total length = 12m  
 less 2 × 135° bends (air) @ equivalent 0.25m each = 0.5m  
 less 2 × 135° bends (flue) @ equivalent 0.25m each = 0.5m  
 Therefore permissible total length of extensions = 11m

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**BAXI Wall Mounted minimum flue terminal clearances**



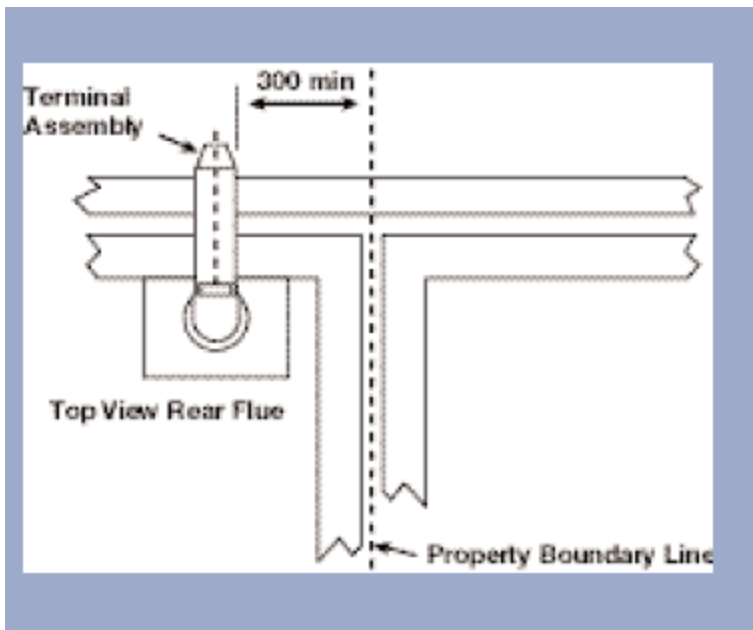
For IE, refer to I.S. 813 "Domestic Gas Installation".

**BAXI Solo 3 PFL & BAXI Solo 3 PFL System minimum flue clearances.**

Terminal position with minimum distance (mm)	mm
A Directly below an openable window, air vent or any other ventilation opening	300
B Below gutter, drain/soil pipe	150
C Below eaves	200
D Below a balcony/carport roof	200
E From vertical drain pipes and soil pipes	150
F From internal or external corners	300
G Above adjacent ground or balcony level	300
H From a surface facing the terminal	600
I Facing terminals	1200
J From opening (door/window) in carport into dwelling	1200
K Vertically from a terminal on the same wall	1500
L Horizontally from a terminal on the same wall	300
M Above an opening, air brick, opening window, etc	300
N Horizontally to an opening, air brick, opening window, etc	300
P Above the roof level (to base of terminal)	300
Q From adjacent wall to flue	300
R From an adjacent opening window	1000

**NOTE:** The distance from a fanned draught appliance terminal installed parallel to a boundary may not be less than 300mm in accordance with the diagram below.

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## BAXI System Boilers



### BAXI System

The BAXI System 35/60 and 60/100 boiler range is compact, efficient and reliable. Based on the highly successful BAXI COMBI range these system boilers are easy to install, easily serviced and great value for money.

Within the stylish white casing there is a powerful heat engine, which will provide heating and hot water comfort to almost all types of domestic properties from a small flat to a five bedroom house.

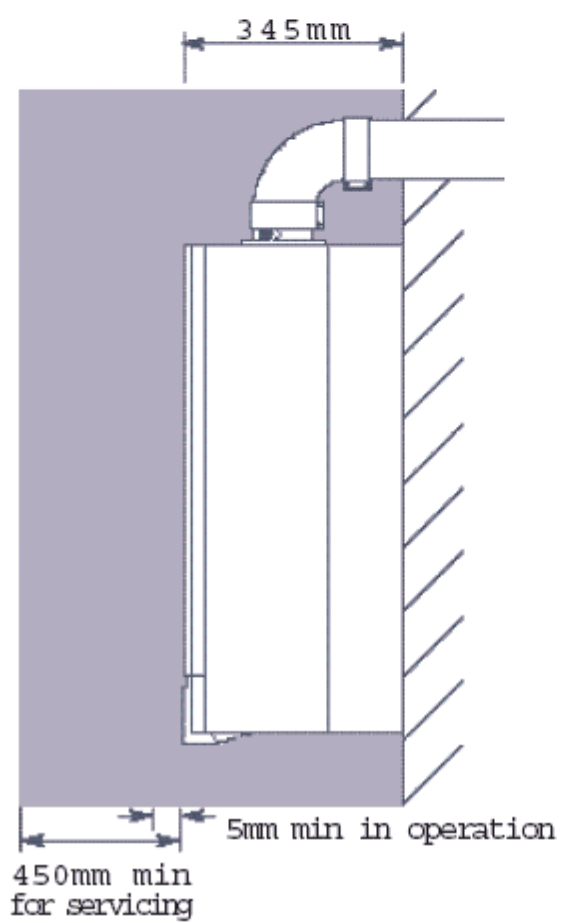
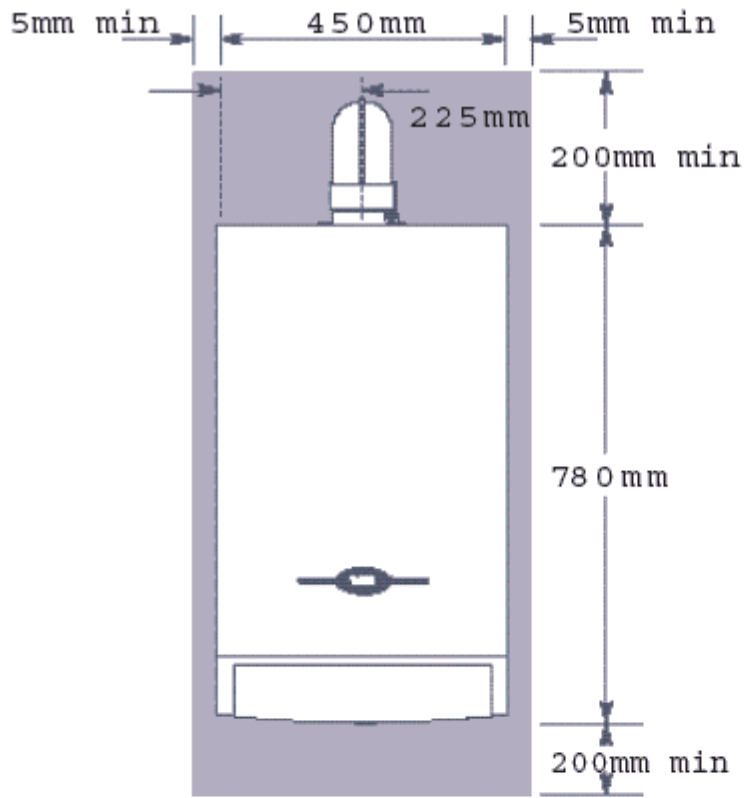
An electronic ignition system negates the need for a pilot light, reducing fuel consumption and eliminating nuisance from pilot light failure. Simple to understand boiler controls combined with sophisticated LED status

indicators make the boilers easy to operate and control. An optional programmable room thermostat further increases boiler control and comfort levels.

With frost protection as standard and a highly versatile fluing system available, the BAXI System 35/60 and 60/100 boiler range can be fitted almost anywhere. Two models in the range offer outputs from 9.3 to 29.4kW.

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## **BAXI System Boilers dimensions & clearances**



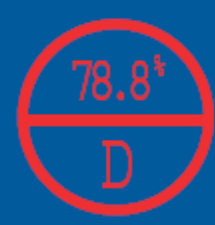
The output to central heating from 9.3kW to 29.4kW



10 LED status indicators



Electronic ignition



35/60 SEDBUK Rating

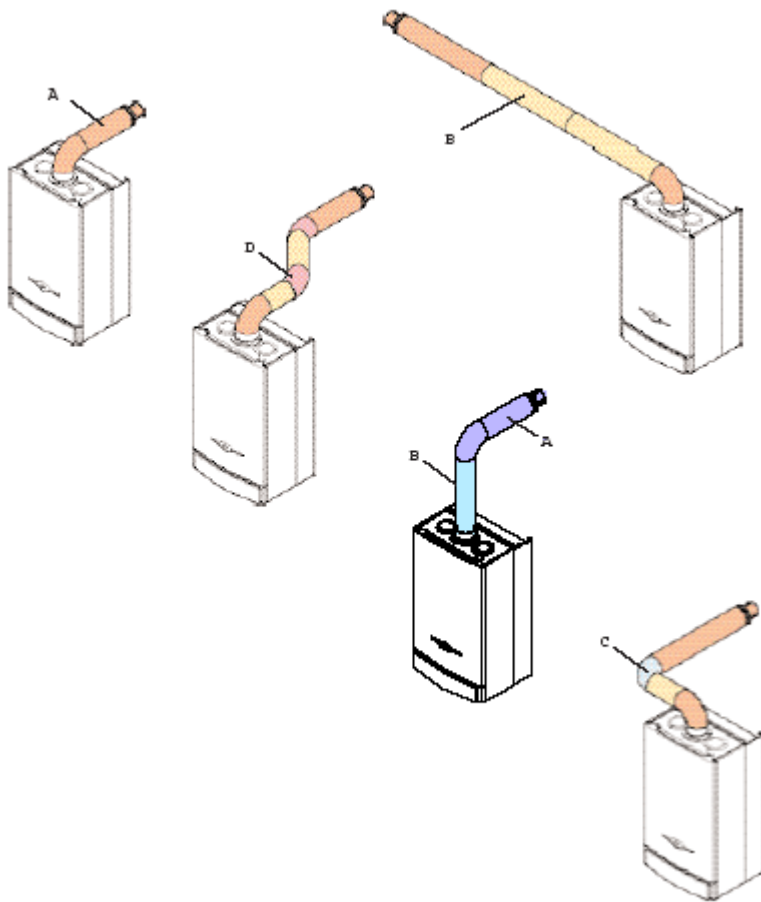


60/100 SEDBUK Rating

## BAXI System Boilers flue options

### BAXI System

#### Concentric Flue System



#### Flue calculation example:

Standard horizontal flue extended and offset horizontally with  $2 \times 135^\circ$  bends

Maximum permissible total horizontal length	= 4m
less length of standard flue kit	= 1m
less $2 \times 135^\circ$ bends @ equivalent 0.5m each	= 1m
Therefore permissible total length of extensions	= 2m

*Note: These are general illustrations only – detailing of actual components will vary from model to model.*

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#### Concentric Horizontal

Key Accessory	Size	Baxi Code
<b>Concentric Flue System 100mm diameter</b>		
A Horizontal flue kit (including $90^\circ$ elbow)	1000mm	247719
B Straight extension kit	1000mm	247723
	500mm	247724
	250mm	248189
C Bend kit	$90^\circ$	247725
D Bend kit	$135^\circ$	247726
	Bend kit (pair)	$135^\circ$

#### Flue accessories

Wall liner/internal flue fixing kit

236441BAX

Pipe support

100mm dia

241105

Pipe support

125mm dia

236621

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## BAXI System Boilers flue options

### BAXI System

#### Vertical Concentric & Twin Flue System

##### Flue calculation example:

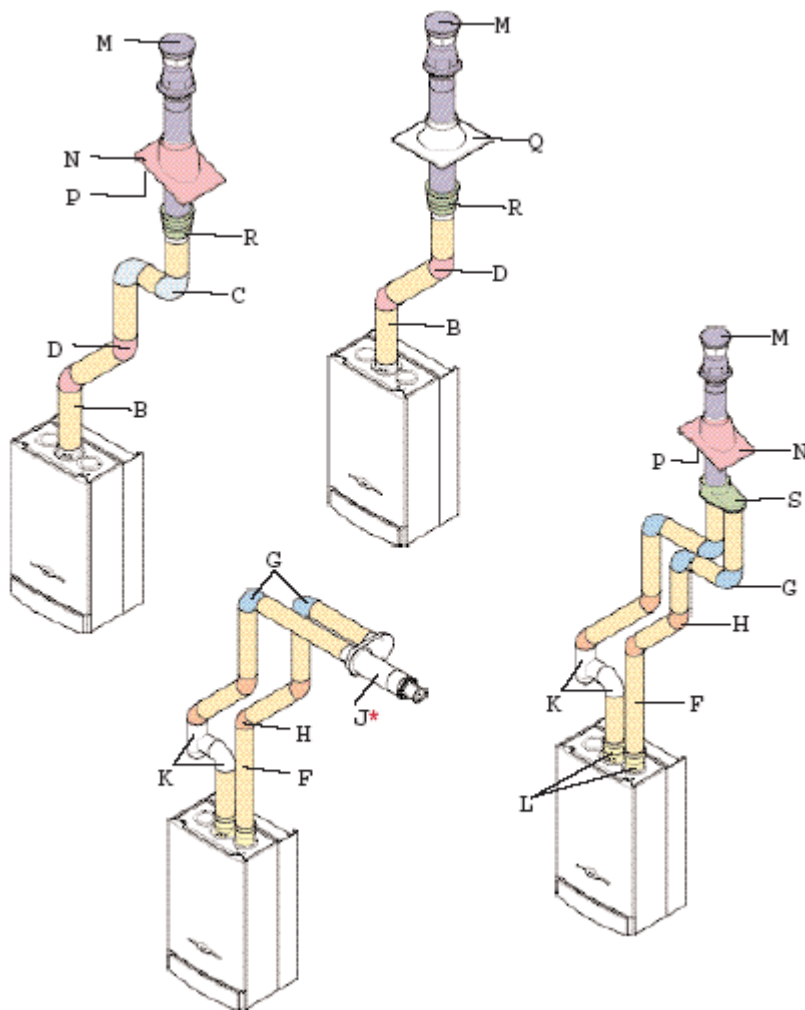
Twin pipe vertical flue extended and offset with  $2 \times 135^\circ$  bends

Maximum permissible total length = 12m

less  $2 \times 135^\circ$  bends (air) @ equivalent 0.25m each = 0.5m

less  $2 \times 135^\circ$  bends (flue) @ equivalent 0.25m each = 0.5m

Therefore permissible total length of extensions = 11m



*Note: If vertical terminal (246140) passes through a decorative ceiling then a roof cover plate is recommended (246143) for decorative finish on internal face.*

*Note: These are general illustrations only – detailing of actual components will vary from model to model.*

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## Vertical and Twin

Key Accessory

Size

Baxi Code

**Concentric Flue System 100mm diameter**

<b>B</b>	Straight extension kit	1000mm	247723
		500mm	247724
		250mm	248189
<b>C</b>	Bend kit	90°	247725
<b>D</b>	Bend kit	135°	247726
		Bend kit (pair)	135°

**Universal Vertical Flue Kits**

<b>L</b>	Twin flue adaptor kit	80/105 series	248222
<b>M</b>	Vertical roof terminal		246140
<b>N</b>	Universal roof tile	25°/45°	246141
		35°/55°	246142
<b>P</b>	Roof cover plate kit		246143
<b>Q</b>	Flat roof flashing		246144
<b>R</b>	Roof terminal adaptor (concentric)		247940
<b>S</b>	Roof terminal adaptor (twin)		247922

**Twin Flue System 80mm diameter**

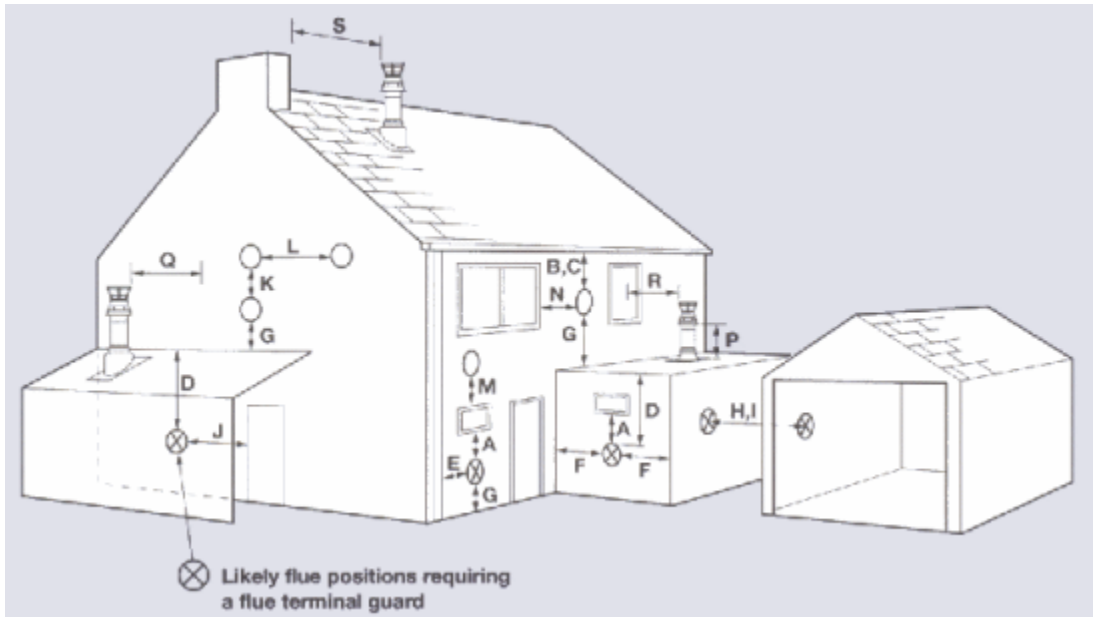
<b>F</b>	Straight extension kit	1000mm	246137
		500mm	246136
		250mm	246135
<b>G</b>	Bend kit	90°	246139
<b>H</b>	Bend kit (pair)	135°	246138
<b>K</b>	Condensate collector kit (only required when flue system in excess of 6 metres)		248443
<b>J</b>	Horizontal terminal kit (twin flue)		247791
	* <b>ONLY</b> System 35/60.		

**Flue accessories**

	Wall liner/internal flue fixing kit		236441BAX
	Pipe support	100mm dia	241105
	Pipe support	80mm dia	238684
	Pipe support	125mm dia	236621

**BAXI System minimum flue terminal clearances**





For IE, refer to I.S. 813 "Domestic Gas Installation".

**BAXI System minimum flue clearances.**

**Terminal position with minimum distance (mm)**

	<b>mm</b>
<b>A</b> Directly below an openable window, air vent or any other ventilation opening	300
<b>B</b> Below gutter, drain/soil pipe	25
<b>C</b> Below eaves	25
<b>D</b> Below a balcony/carport roof	25
<b>E</b> From vertical drain pipes and soil pipes	25
<b>F</b> From internal or external corners	25
<b>G</b> Above adjacent ground or balcony level	300
<b>H</b> From a surface facing the terminal	600
<b>I</b> Facing terminals	1200
<b>J</b> From opening (door/window) in carport into dwelling	1200
<b>K</b> Vertically from a terminal on the same wall	1500
<b>L</b> Horizontally from a terminal on the same wall	300
<b>M</b> Above an opening, air brick, opening window, etc	300
<b>N</b> Horizontally to an opening, air brick, opening window, etc	300
<b>P</b> Above the roof level (to base of terminal)	300
<b>Q</b> From adjacent wall to flue	300
<b>R</b> From an adjacent opening window	1000
<b>S</b> From another terminal	600

**NOTE:** The distance from a fanned draught appliance terminal installed parallel to a boundary may not be less than 300mm in accordance with the diagram below.

Please refer to the latest regulations in force for confirmation and full details of flue installation.

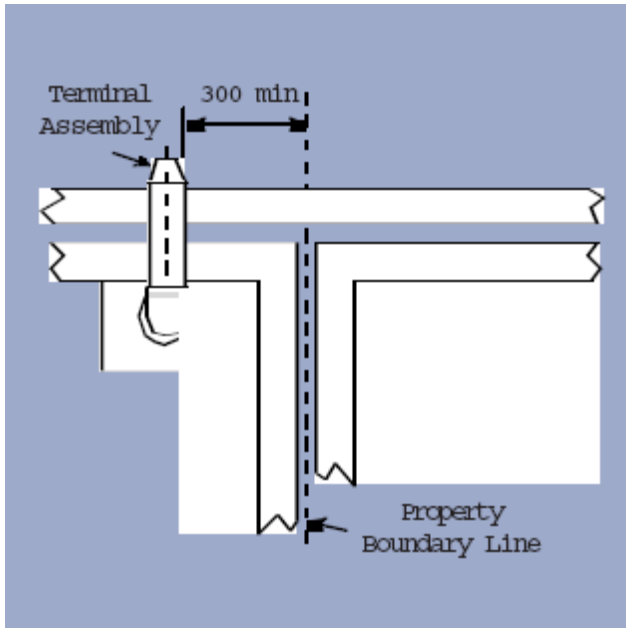
<sup>a</sup> In addition, the terminal should not be nearer than 150mm to an opening in the building fabric formed for the purpose of accommodating a built-in element such as a window frame. See BS 5440 Pt. 1.

<b>Maximum flue lengths</b>	Max equivalent concentric horizontal	Max equivalent concentric vertical	Max equivalent twin tube horizontal flue length (metres)	Max equivalent twin tube vertical	Max equivalent vertex/duplex flue length (metres)

	flue length (metres)	flue length (metres)		flue length (metres)	
<b>BAXI Combination gas boilers</b>					
BAXI COMBI 105e	4	4	n/a	12	n/a
BAXI COMBI Instant 105e	4	4	n/a	12	n/a
BAXI COMBI 80e	5	4	Air 10/Flue 10	15	n/a
BAXI COMBI Instant 80e	5	4	Air 10/Flue 10	15	n/a
BAXI COMBI 80Eco	5	4	Air 10/Flue 10	15	n/a
BAXI COMBI Maxflow WM	4	4	Air 12/Flue 12	15	n/a
BAXI COMBI Maxflow FS	5	3	n/a	10	n/a
<b>Baxi High Efficiency gas boilers</b>					
BAXI COMBI 130HE	4	5	40	40	n/a
BAXI 100HE	4	4	150	150	n/a
<b>Baxi Wall Mounted Cast Iron boilers</b>					
BAXI Solo 3 PFL 30	3	4	n/a	40	26
BAXI Solo 3 PFL 40	3	4	n/a	40	26
BAXI Solo 3 PFL 50	3	4	n/a	40	26
BAXI Solo 3 PFL 60	3	4	n/a	40	26
BAXI Solo 3 PFL 70	3	4	n/a	40	26
BAXI Solo 3 PFL 80	3	4	n/a	30	26
BAXI Solo 3 PFL System 30	3	4	n/a	40	26
BAXI Solo 3 PFL System 40	3	4	n/a	40	26
BAXI Solo 3 PFL System 50	3	4	n/a	40	26
BAXI Solo 3 PFL System 60	3	4	n/a	40	26
BAXI Solo 3 PFL System 70	3	4	n/a	40	26
BAXI Solo 3 PFL System 80	3	4	n/a	30	26
<b>Baxi Wall Mounted System boilers</b>					
BAXI System 35/60	5	4	Air 10/Flue 10	40	n/a
BAXI System 60/100	4	4	Air 12/Flue 12	24	n/a

\* Plus terminal

† This dimension is the combined total of the flue air duct equivalent lengths. See HE brochure for full details.



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Fax. 01926 410 006

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Tel. 08706 060 623

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Baxiflue/10/03/1

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