

Betacom c 24 and 30kW Combination Boilers



Betacom c 24 | 30kW



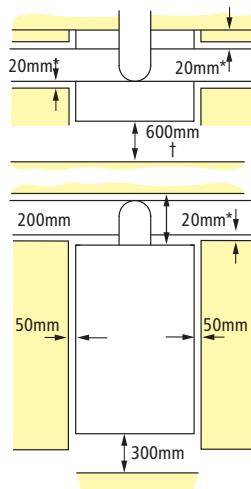
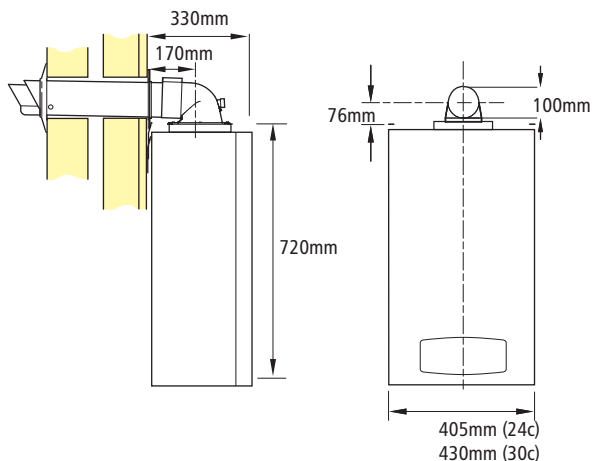
Betacom c - Combination Boilers

The new Glow-worm Betacom c range of high efficiency combi boilers is simple, affordable and reliable. This stylishly designed appliance is easy to install and operate. It is one of the smallest SEDBUK B combis on the market and is the ideal heating solution for small to medium sized homes with multiple flueing options and telescopic flue as standard, which simplifies installation and removes the need to cut to length. It is available in outputs of 24kW and 30kW and features an in-built analogue timer and in-built frost protection.

The Betacom c is fully compatible with the Glow-worm Plume Management Kit, Condensate Pump and all volt free controls. It is supported by our nationwide service organisation providing installer and end-user support 7 days a week, 364 days a year throughout the installation and life of the appliance.

- Compact and stylish appliance
- SEDBUK B
- Easy to use and install
- User-friendly LED display
- In-built timer
- Factory fitted mains connection lead
- Frost protection
- Pump & diverter anti-seize function
- Horizontal, vertical & twin flue options
- Superb value for money
- Full service back up of an experienced and leading manufacturer with 250 engineers on the road

Dimensions & Clearances



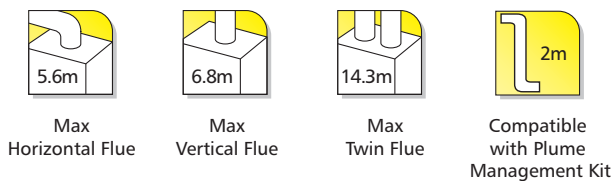
- The boiler must be installed by a competent person in accordance with the rules in force in the United Kingdom.
- The Betacom 24c & 30c high efficiency condensing combi boilers have been designed for use on a sealed system only. The boilers come complete with pump and expansion vessel and safety discharge valve.
- No secondary domestic hot water storage is needed
- Together with your room thermostat and thermostatic radiator valves (not supplied by Glow-worm) fully automatic control can be achieved

* including combustible material

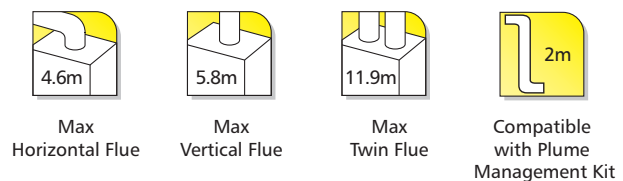
† a removable compartment door can be placed at least 5mm in front of the appliance

Visit www.glow-worm.co.uk to view and download technical data



Flue Options - Betacom 24c



Flue Options - Betacom 30c



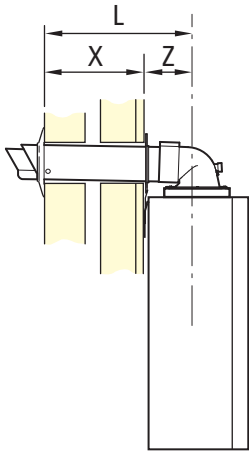
Product Specifications

Product	Range	Betacom c	Betacom c	Product	Range	Betacom c	Betacom c	
	Type	Combi	Combi		Type	Combi	Combi	
	Model	24c	30c		Model	24c	30c	
Appearance					Installation	Sealed system	Yes	Yes
						Suitable for open-vent systems	No	No
						Flow restrictor	Yes 8 l/min	Yes 10 l/min
Size	Casing dimensions (h x w x d)(mm)	720 x 405 x 330	720 x 430 x 330	Clearances	Inbuilt system bypass	No	No	
	Weight (lift) (kg)	37	38		Inbuilt condensate trap/siphon	Trap	Trap	
Performance	CH output (kW) Min/Max	10.2 / 24.7	10.2 / 27.6	User interface	Inbuilt boiler frost protection	Yes	Yes	
	DHW output (kW) Min/Max	10.2 / 24.7	14.26 / 27.6		Zero compartment ventilation	No	No	
	CH condensing output (kW)	24.9	28.8		Top (mm) (from top of boiler)	200	200	
	DHW flow rate (l/min, 35°C rise)	9.4	10.5		Side (mm)	50	50	
	SEDBUK rating	B	B		Bottom (mm)	300	300	
	SEDBUK %	86.0	86.4		Front (mm)*	600	600	
Construction	NOx class (natural gas)	1	1	Pipes	User display	LED	LED	
	Main heat exchange type	Tube & fin	Tube & fin		Diagnostics	LED	LED	
	Heat exchanger material	Copper	Copper		User adjustable DHW temp control	Yes	Yes	
	Burner type	Multi-bladed	Multi-bladed		Optional Programmer	Built-in	Built-in	
	Fully modulating	Yes	Yes		Water connections	2 x 22mm, 2 x 15mm	2 x 22mm, 2 x 15mm	
	DHW plate heat exchanger	Yes	Yes		Flues	Max horizontal	5.6m	4.6m
Integrated hydrobloc	No	No	Max vertical	6.8m		5.8m		
			Max twin flue (total air + flue)	14.3m		11.9m		
			Optional Plume Management Kit	2m	2m			

* This can be reduced to 5mm for a removable panel

Flueing Options & Accessories

Horizontal Flue Options: Top Rear



L = Flue length, measured from outside wall face to centre line of flue outlet. If **L** is less than 589mm then only the horizontal flue is required. If **L** is greater than 589mm then extensions are required. If **L** is less than 384mm then use horizontal top flue A2043400, which can be cut to suit a minimum wall thickness of 75mm.

X = wall thickness.

Z = distance from centre line of flue outlet to inside wall face.

The horizontal flue can be extended up to the maximum flue lengths with extensions but the maximum lengths must not be exceeded (refer to **L** in table to the right).

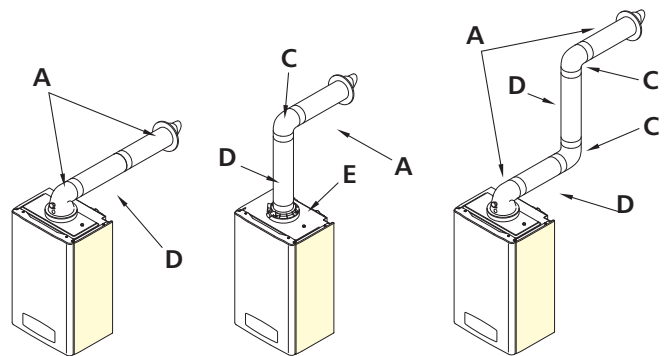
For each additional 90° or 2 x 45° bends fitted, the maximum flue length must be reduced by 1m.

The vertical flue adaptor **E** is required for vertical flue connections to the boiler.

	Model	L Max with Extensions	X (mm)		Z (mm)	A Horizontal Telescopic Flue A2043600
			Min	Max		
A	24c	5.6	214	419	170	
	30c	4.6				

Horizontal Flue Accessories

	B	C	D	E
	45° Bend 2000460485 (2 off)	90° Bend 2000460484 (1 off)	0.5m Extension 2000460481 (1 off) or 1m Extension 2000460482 (1 off) or 2m Extension 2000460483 (1 off)	Vertical Flue Adaptor A2024600



L = Flue length, measured from outside wall face to centre line of flue outlet.

If **L** is less than 589mm then only the horizontal flue is required.

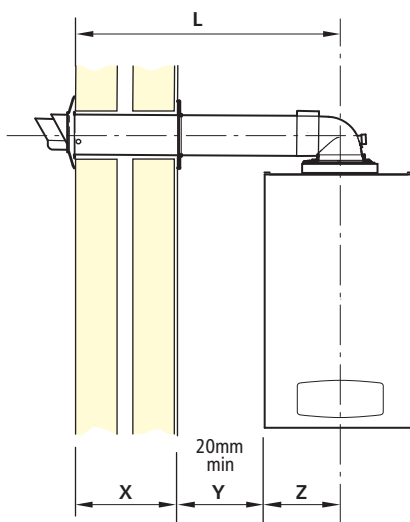
If **L** is greater than 589mm then extensions are required. If **L** is less than 384mm then use horizontal top flue A2043400, which can be cut to suit a minimum wall thickness of 75mm.

X = wall thickness.

Y = distance from the side of the boiler to the inside wall face

Z = distance from centre line of flue outlet to the side of the boiler.

Horizontal Flue Options: Top Side



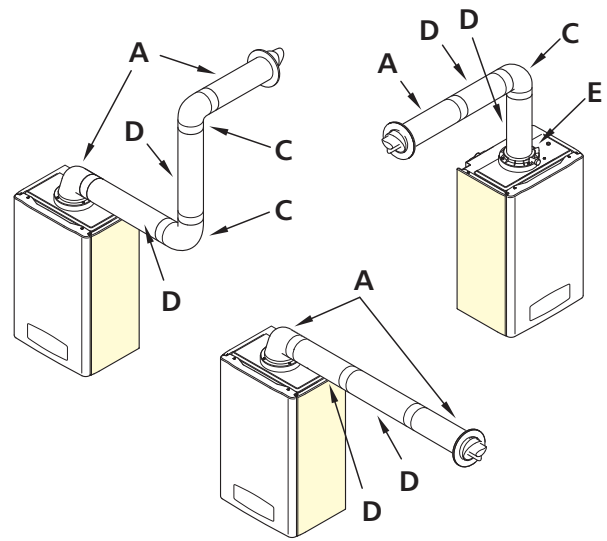
Flueing Options & Accessories

The horizontal flue can be extended up to the maximum flue lengths with extensions but the maximum lengths must not be exceeded (refer to **L** in table below).

For each additional 90° or 2 x 45° bends fitted, the maximum flue length must be reduced by 1m.

The vertical flue adaptor **E** is required for vertical flue connections to the boiler.

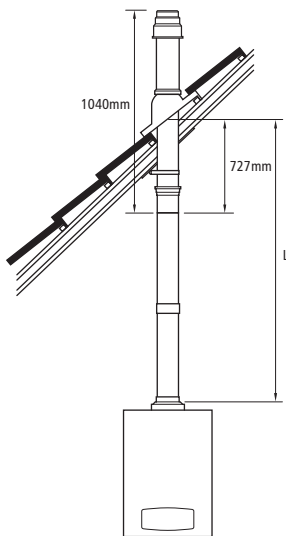
	Model	L Max with Extensions	X (mm)		Z (mm)	Horizontal Telescopic Flue A2043600
			Min	Max		
	24c	5.6	131.5	336.5	202.5	
	30c	4.6	119	324	215	



100mm diameter flue components as the horizontal flue options. The vertical flue adaptor **E** is required for vertical flue connections to the boiler.

Horizontal sections must have a continuous fall of at least 2.5° (44mm/metre) back to the boiler.

Vertical Flue Options



L = Flue length, measured from the top of the boiler to the underside of the roof flashing.

Maximum flue length is 3m.

The maximum flue length must not be exceeded (refer to **L** in table opposite).

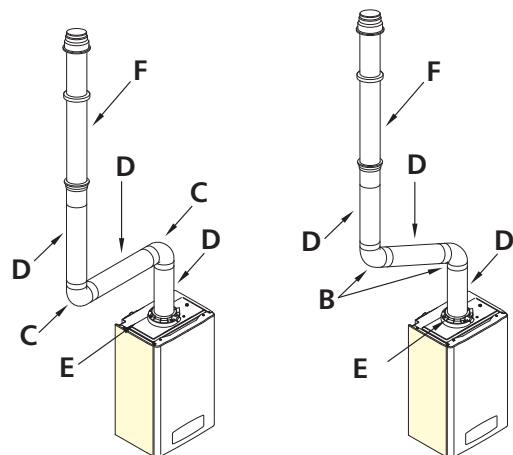
For each 90° or 2 x 45° bends fitted the maximum flue length must be reduced by 1m.

Vertical flue options use the same

	Model	L Max with Extensions	Description of Parts	Part Number
	24c	6.8	D 0.5m Extension (1 off) or	2000460481
			D 1m Extension (1 off) or	2000460482
			D 2m Extension (1 off)	2000460483
	30c	5.8	E Vertical Flue Adaptor	A2024600
			F Vertical Roof Terminal	2000460480

Vertical Flue Accessories

	B	C	D
	45° Bend (2 off) 2000460485	90° Bend 2000460484	0.5m Ext 2000460481 1m Ext 2000460482 2m Ext 2000460483
	E Vertical Flue Adaptor A2024600	F Vertical Roof Terminal 2000460480	G Pitched Roof Flashing 2000460479
	H Flat Roof Flashing 2000460478	I Sliding Sleeve 2000460487	K Telescopic Extension A2036900
		J Fixing Bracket (5 off) 2000460486	



Flueing Options & Accessories

Twin Flue Options

L = L1+ L2 Maximum available combined flue length (L1 air inlet and L2 flue outlet), measured from top of boiler (not including terminals)

Maximum flue length is 14.3m or 11.9m (L1+ L2) plus terminals. For each 90° or 2 x 45° bends fitted the maximum flue length must be reduced by 1m.

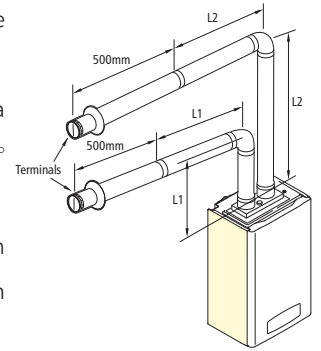
Air inlet and flue outlet terminals must be installed so that they are

exposed to external air.

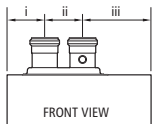
The flue outlet must be above the air inlet if mounted vertically.

Horizontal sections must have a continuous fall of at least 2.5° (44mm/metre) back to the boiler.

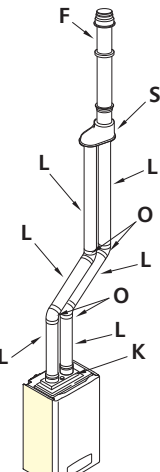
The minimum distance between flue and air terminals is 120mm (between terminal centres).



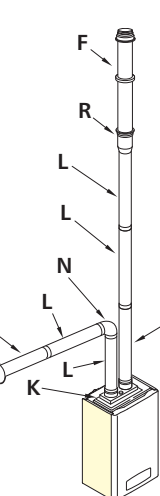
Twin Flue Adaptor

K Twin Flue Adaptor A2011000	Model	i(mm)	ii(mm)	iii(mm)
	24c	82.5	120	202.5
	30c	95	120	215

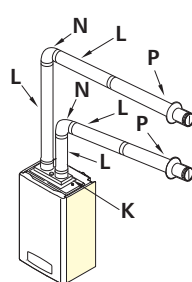
Option 1

	Model	L = L1 air + L2 flue Max Combined Flue Length	Description of Parts	Part Number
	24c	14.3m	F Vertical Roof Terminal	2000460480
			K Twin Flue Adaptor	A2011000
	30c	11.9m	L 1m Extension (1 off)	A2011100
			O 45° Bend (2 off)	A2011300
			S Twin Pipe to Concentric Adaptor	A2011600

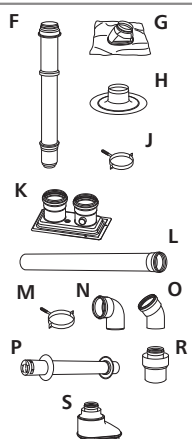
Option 2

	Model	L = L1 air + L2 flue Max Combined Flue Length	Description of Parts	Part Number
	24c	14.3m	F Vertical Roof Terminal	2000460480
			K Twin Flue Adaptor	A2011000
			L 1m Extension (1 off)	A2011100
	30c	11.9m	N 90° Bend (1 off)	A2011400
			P Horizontal Terminal	A2011200
			R Single Pipe Adaptor	A2011500

Option 3

	Model	L = L1 air + L2 flue Max Combined Flue Length	Description of Parts	Part Number
	24c	14.3m	K Twin Flue Adaptor	A2011000
			L 1m Extension (1 off)	A2011100
	30c	11.9m	N 90° Bend (1 off)	A2011400
			P Horizontal Terminal	A2011200

Twin Flue Accessories

	F	G	H	J
	Vertical Roof Terminal 2000460480	Pitched Roof Flashing 2000460479	Flat Roof Flashing 2000460478	Ø 100mm Fixing Bracket 2000460486 (5 off)
	K Twin Flue Adaptor A2011000	L 1m Extension A2011100	M Ø 80mm Fixing Bracket A2012800 (5 off)	N 90° Bend A2011400
	O 45° Bend A2011300 (2 off)	P Horizontal Terminal A2011200	R Single Pipe Adaptor A2011500	S Twin Pipe to Concentric Adaptor A2011600



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