

# ***Supplementary LPG Boiler Instructions***

## **Alpha C23/27**

**Range of Wall Mounted, Fan Assisted, Room Sealed,  
Gas Fired Combination Boilers**

For Technical help or for Service call ...

**ALPHA HELPLINE**

**Tel: 0870 3001964**

**Alpha**  
BOILERS

Nepicar House, London Road,  
Wrotham Heath, Sevenoaks,  
Kent TN15 7RS

**British Gas**  
Service Listed



Alpha C23 G.C. No. 47 532 22  
Alpha C27 G.C. No. 47 532 23



**For use with LPG (Propane) only**

**Leave these instructions with the User**

# 1 INTRODUCTION

This supplement is for the LPG model of the boiler; it **must be** read in conjunction with the 'Installation and Servicing Instructions' supplied with the boiler and provides the extra information which is particular to LPG.

The Alpha C23/27 range of combination boilers are wall mounted, fan assisted room-sealed combination boilers providing both central heating and domestic hot water at mains pressure.

The boilers are designed for use with a fully pumped sealed and pressurised heating system using only PROPANE gas.

# 2 TECHNICAL DATA

## 2.1 PERFORMANCE - PROPANE GAS

### Alpha C23

Central Heating			MAX.	MIN.
Heat Input (Gross)	kW		28.5	12.3
	Btu/h		97 200	42 000
Heat Output (modulating)	kW		23.3	9.3
	Btu/h		79 500	31 700
Burner Pressure Settings	Room sealed chamber panel fitted	mbar	36.0	7.3
		in wg	14.4	2.92
Gas Supply Pressure (LPG)	mbar	37.0		
	in wg	14.8		
Gas Rate (LPG)	m <sup>3</sup> /h	1.1	0.45	
	ft <sup>3</sup> /h	39.1	16.1	
CH Water Temp. (Approx. max.)	°C	82		
	°F	180		

### Alpha C23

Domestic Hot Water			MAX.	MIN.
Heat Input (Gross)	kW		28.5	12.3
	Btu/h		97 200	42 000
Output to Water (modulating)	kW		23.3	9.3
	Btu/h		79 500	31 700
Burner Pressure Settings	Room sealed chamber panel fitted	mbar	36.0	7.3
		in wg	14.4	2.92
Gas Supply Pressure (LPG)	mbar	37.0		
	in wg	14.8		
Gas Rate (LPG)	m <sup>3</sup> /h	1.1	0.45	
	ft <sup>3</sup> /h	39.1	16.1	
Flow Rate at 35°C Rise	L/min	9.5		
	G.P.M.	2.1		
Outlet Water Temp. (Approx. max.)	°C	62		
	°F	144		

## 2.2 PERFORMANCE - PROPANE GAS

### Alpha C27

Central Heating			MAX.	MIN.
Heat Input (Gross)	kW		33.0	14.3
	Btu/h		112 600	48 800
Heat Output (modulating)	kW		27.0	11.0
	Btu/h		92 100	37 500
Burner Pressure Settings	Room sealed chamber panel fitted	mbar	36.9	7.0
		in wg	14.76	2.8
Gas Supply Pressure (LPG)	mbar	37.0		
	in wg	14.8		
Gas Rate (LPG)	m <sup>3</sup> /h	1.3	0.45	
	ft <sup>3</sup> /h	47.1	16.1	
CH Water Temp. (Approx. max.)	°C	82		
	°F	180		

### Alpha C27

Domestic Hot Water			MAX.	MIN.
Heat Input (Gross)	kW		33.0	10.8
	Btu/h		112 600	36 800
Output to Water (modulating)	kW		27.0	8.1
	Btu/h		92 100	27 600
Burner Pressure Settings	Room sealed chamber panel fitted	mbar	36.4	7.0
		in wg	14.76	2.8
Gas Supply Pressure (LPG)	mbar	37.0		
	in wg	14.8		
Gas Rate (LPG)	m <sup>3</sup> /h	1.3	0.35	
	ft <sup>3</sup> /h	47.1	12.7	
Flow Rate at 35°C Rise	L/min	11.0		
	G.P.M.	2.42		
Outlet Water Temp. (Approx. max.)	°C	62		
	°F	144		

## 2.3 GAS SUPPLY

The Alpha C23 boiler requires a gas rate of 2.0 kg/h (4.4 lb/h) or 3.9 litres/h of liquid gas.

The Alpha C27 boiler requires a gas rate of 2.3 kg/h (5.1 lb/h) or 4.6 litres/h of liquid gas.

The supply pipes must be capable of delivering this quantity of gas in addition to the demand from any other appliances in the house. The boiler requires at least a 22 mm gas supply pipe.

The complete installation must be tested for gas soundness against leakage.

The local Propane gas supplier should be consulted, at the installation planning stage, in order to establish the availability of an adequate supply of gas.

Installation pipes, cylinders and pressure regulators should be fitted in accordance with BS 5482:1. Bulk tank installation must comply with the requirements of the Home Office code of practice for the storage of liquefied petroleum gas at fixed installations.

## 3 BOILER LOCATION

The boiler **must not** be installed in a room or internal space below ground level, e.g. in a basement or cellar, except where at least one side is open to ground level.

## 4 INSTALLATION

In addition to the regulations and requirements stated in the Installation and Servicing instructions, the boiler **must be** installed in accordance with BS 5482:1 - The Installation of Propane Burning Appliances in Permanent Dwellings.

## 5 COMMISSIONING

The boiler has been tested and factory set for use with Propane gas and it should only be necessary to ensure the correct gas supply pressure of 37 mbar is available.

## 6 PARTS LIST

Only the main burner injectors are special to Propane boilers. For other 'Short List Spare Parts', refer to the Installation and Servicing instructions supplied with the boiler.

Propane components	Qty.	Type	Alpha Part No.
Main burner injectors - C23	12	0.77 mm	1.4271
Main burner injectors - C27	14	0.77 mm	1.4271

## 7 SERVICING

When servicing or replacing boiler components follow the procedures as described in the main Installation and Servicing instructions supplied with the boiler.

**Remembering the parts special for Propane boilers and the burner pressures special to Propane boilers given in this leaflet.**

**DETAILS OF BOILER INSTALLATION**

Date of Installation: .....

Name of Installer: .....

Address: .....

.....

.....

.....

Postcode: .....

Telephone No: .....

Boiler Serial Number: (LPG) .....

(see inside controls panel hinged cover)

**Alpha**  
BOILERS

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*These instructions have been carefully prepared but we reserve the right to alter the specification at any time in the interest of product improvement.  
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