

Supplementary LPG Boiler Instructions

Alpha CD50

**Wall Mounted, Fan Assisted, Room Sealed, Gas Fired,
High Efficiency, Condensing Combination Boiler with
Unvented Hot Water Storage**

For Technical help or for Service call ...
ALPHA HELPLINE Tel: 0870 3001964
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Alpha
HEATING INNOVATION

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British Gas
Service Listed



Alpha CD50

G.C. No. 47 532 24



**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 CD50 is a wall mounted, high efficiency, fan assisted, room-sealed, condensing combination boiler - incorporating a 52 litre unvented hot water storage cylinder. The burner is lit electronically and heat output is controlled by a modulating gas valve and fan.

The boiler, providing both central heating and domestic hot water at mains pressure, is designed for use with a fully pumped, sealed and pressurised heating system using only PROPANE gas.

2 TECHNICAL DATA

2.1 PERFORMANCE - PROPANE GAS (CAT 3P-G31-37 mbar)

Central Heating			MAX.	MIN.
Heat Input (H _g) (Gross)	kW		31.0	7.4
	Btu/h		105 770	25 360
Heat Input (H _i) (Net)	kW		28.0	6.6
	Btu/h		95 230	22 830
Heat Output (H _s condensing) (50°C/30°C)	kW		29.7	7.0
	Btu/h		101 430	23 980
Heat Output (H _i non-condensing) (80°C/60°C)	kW		27.6	6.5
	Btu/h		94 130	21 500
Differential Burner Pressure	Room sealed chamber panel fitted	mbar	4.16	0.24
		in wg	1.66	0.10
Gas Supply Pressure (LPG)	mbar		37.0	
	in wg		14.8	
Gas Rate (LPG)	m ³ /h		1.08	0.26
	ft ³ /h		38.6	9.3
CH Water Temp. (Approx. max.)	°C		82	
	°F		180	

Domestic Hot Water			MAX.	MIN.
Heat Input (H _g) (Gross)	kW		36.1	7.4
	Btu/h		123 190	25 360
Heat Input (H _i) (Net)	kW		32.6	6.6
	Btu/h		110 910	22 830
Output to Water (H _g) (modulating)	kW		32.0	6.3
	Btu/h		109 200	21 500
Differential Burner Pressure	Room sealed chamber panel fitted	mbar	5.9	0.24
		in wg	2.36	0.1
Gas Supply Pressure (LPG)	mbar		37.0	
	in wg		14.8	
Gas Rate (LPG)	m ³ /h		1.25	0.26
	ft ³ /h		44.6	9.3
Flow Rate	L/min		18.0	1.0
	G.P.M.		4.0	0.22
Outlet Water Temp. (Approx.)	°C		65	5
	°F		149	41
Time to raise water store by 50°C			7 minutes	
Reheat time for 70% of store	(boiler ON)		3 minutes	
	(boiler OFF)		5 minutes	

2.2 GAS SUPPLY

The Alpha CD50 boiler requires a gas rate of 2.5 kg/h (5.5 lb/h) or 4.8 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 injector	1	4.55 mm	1.018202

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:

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Postcode:

Telephone No:

Boiler Serial Number: (LPG)

(see inside controls panel hinged cover)

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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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