

Supplementary LPG Boiler Instructions

Alpha CD25C/28C/35C

**Wall Mounted, Fan Assisted, Room Sealed, Gas Fired
High Efficiency Condensing Boilers**

For Technical help or for Service call ...
ALPHA HELPLINE Tel: 0870 3001964
website: www.alpha-innovation.co.uk

Alpha
HEATING INNOVATION

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

British Gas
Service Listed



Alpha CD25C
Alpha CD28C
Alpha CD35C

British Gas G.C. No. 47 532 32
British Gas G.C. No. 47 532 34
British Gas G.C. No. 47 532 36



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 CD25C, CD28C and CD35C are 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

PERFORMANCE - PROPANE GAS (CAT I3P 3P - G31 - 37 mbar)

Alpha CD25C

Central Heating		MAX.	MIN.	
Heat Input (H _s) (Gross)	kW	20.4	6.4	
	Btu/h	69 600	21 800	
Heat Input (H _i) (Net)	kW	18.4	5.8	
	Btu/h	62 780	19 780	
Heat Output (H _s condensing) (50°C/30°C)	kW	19.5	6.1	
	Btu/h	66 550	20 820	
Heat Output (H _i non-condensing) (80°C/60°C)	kW	18.0	5.5	
	Btu/h	61 420	18 780	
Differential Burner Pressure	Room sealed chamber panel fitted	mbar	3.15	0.4
		in wg	1.26	0.16
Gas Supply Pressure (LPG)	mbar	37.0		
	in wg	14.8		
Gas Rate (LPG)	m ³ /h	0.78	0.24	
	ft ³ /h	27.6	8.5	

Alpha CD25C

Domestic Hot Water		MAX.	MIN.	
Heat Input (H _s) (Gross)	kW	26.7	6.4	
	Btu/h	91 100	21 960	
Heat Input (H _i) (Net)	kW	24.1	5.8	
	Btu/h	82 200	19 780	
Output to Water (H _s) (modulating)	kW	24.3	5.5	
	Btu/h	84 800	18 780	
Differential Burner Pressure	Room sealed chamber panel fitted	mbar	6.10	0.40
		in wg	2.44	0.16
Gas Supply Pressure (LPG)	mbar	37.0		
	in wg	14.8		
Gas Rate (LPG)	m ³ /h	1.02	0.24	
	ft ³ /h	36	8.5	
Flow Rate at 35°C Rise	L/min	9.6		
	gal/min	2.2		
Specific Flow Rate (D) at 30°C Rise (Flow rate @ 30K to EN625)	L/min	11.2		
	gal/min	2.5		

Alpha CD28C

Central Heating		MAX.	MIN.	
Heat Input (H _s) (Gross)	kW	27.1	7.3	
	Btu/h	92 400	24 900	
Heat Input (H _i) (Net)	kW	24.4	6.6	
	Btu/h	83 250	22 500	
Heat Output (H _s condensing) (50°C/30°C)	kW	25.9	6.9	
	Btu/h	88 400	23 500	
Heat Output (H _i non-condensing) (80°C/60°C)	kW	24.0	6.3	
	Btu/h	81 900	21 500	
Differential Burner Pressure	Room sealed chamber panel fitted	mbar	7.27	0.64
		in wg	2.9	0.26
Gas Supply Pressure (LPG)	mbar	37.0		
	in wg	14.8		
Gas Rate (LPG)	m ³ /h	1.04	0.28	
	ft ³ /h	36.7	9.8	

Alpha CD28C

Domestic Hot Water		MAX.	MIN.	
Heat Input (H _s) (Gross)	kW	31.6	7.3	
	Btu/h	107 900	24 900	
Heat Input (H _i) (Net)	kW	28.5	6.6	
	Btu/h	97 200	22 500	
Output to Water (H _s) (modulating)	kW	28.7	6.3	
	Btu/h	97 900	21 500	
Differential Burner Pressure	Room sealed chamber panel fitted	mbar	9.06	0.64
		in wg	3.62	0.26
Gas Supply Pressure (LPG)	mbar	37.0		
	in wg	14.8		
Gas Rate (LPG)	m ³ /h	1.21	0.28	
	ft ³ /h	42.7	9.8	
Flow Rate at 35°C Rise	L/min	11.4		
	gal/min	2.5		
Specific Flow Rate (D) at 30°C Rise (Flow rate @ 30K to EN625)	L/min	13.3		
	gal/min	2.9		

Alpha CD35C

Central Heating		MAX.	MIN.
Heat Input (H _g) (Gross)	kW	31.6	8.9
	Btu/h	107 800	30 600
Heat Input (H _i) (Net)	kW	28.5	8.1
	Btu/h	97 200	27 600
Heat Output (H _s condensing) (50°C/30°C)	kW	30.3	8.5
	Btu/h	103 400	29 000
Heat Output (H _i non-condensing) (80°C/60°C)	kW	28.0	7.8
	Btu/h	95 550	26 600
Differential Burner Pressure	Room sealed chamber panel fitted	mbar	2.49
		in wg	1.0
Gas Supply Pressure (LPG)	mbar	37.0	
	in wg	14.8	
Gas Rate (LPG)	m ³ /h	1.21	0.34
	ft ³ /h	42.7	12.0

Alpha CD35C

Domestic Hot Water		MAX.	MIN.
Heat Input (H _g) (Gross)	kW	38.0	8.9
	Btu/h	129 600	30 600
Heat Input (H _i) (Net)	kW	34.3	8.1
	Btu/h	117 000	27 600
Output to Water (H _s) (modulating)	kW	34.6	8.0
	Btu/h	118 100	27 300
Differential Burner Pressure	Room sealed chamber panel fitted	mbar	3.43
		in wg	1.37
Gas Supply Pressure (LPG)	mbar	37.0	
	in wg	14.8	
Gas Rate (LPG)	m ³ /h	1.46	0.34
	ft ³ /h	51.5	12.0
Flow Rate at 35°C Rise	L/min	14.2	
	gal/min	3.13	
Specific Flow Rate (D) at 30°C Rise (Flow rate @ 30K to EN625)	L/min	15.6	
	gal/min	3.44	

Boiler model	%CO ₂ content (± 0.2%)			Sedbuk rating		NOx class
	LPG (propane)			Efficiency band	SAP efficiency (%)	
	Min	CH Max	DHW max			
CD25C	10.0	10.7	10.6	A	91.9	5
CD28C	10.1	10.6	10.6	A	91.6	5
CD35C	9.1	10.7	10.8	A	92.4	5

2.3 GAS SUPPLY

The Alpha CD25C boiler requires a gas rate of 1.87 kg/h (4.0 lb/h) or 3.6 litres/h of liquid gas.

The Alpha CD28C boiler requires a gas rate of 2.22 kg/h (4.8 lb/h) or 4.2 litres/h of liquid gas.

The Alpha CD35C boiler requires a gas rate of 2.67 kg/h (5.7 lb/h) or 5.0 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 boilers require 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.

3 BOILER LOCATION

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.

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 - CD25C and 28C	1	4.0 mm	1.022509
Main burner injector - CD35C	1	5.4 mm	1.024388

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)

Alpha

HEATING INNOVATION

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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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Part No. 1.024987