

# ***Supplementary LPG Boiler Instructions***

## **Alpha CD13R, 18R and 24R**

**Wall Mounted, Fan Assisted, Room Sealed, Gas Fired  
High Efficiency Condensing Regular Boiler Range**

For Technical help or for Service call ...  
**ALPHA HELPLINE Tel: 0870 3001964**  
website: [www.alpha-innovation.co.uk](http://www.alpha-innovation.co.uk)

***Alpha***  
HEATING INNOVATION

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***British Gas***  
Service Listed



Alpha CD13R	British Gas G.C. No. 41 532 11
Alpha CD18R	British Gas G.C. No. 41 532 09
Alpha CD24R	British Gas G.C. No. 41 532 10



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

**Leave these instructions with the User**

# 1 INTRODUCTION

This supplement is for the LPG model of the boilers; 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 CD13R, 18R and 24R boilers provide central heating (as required) during the 'ON' times set on your clock (if fitted).

The boilers are designed to operate on open vented or sealed central heating systems using only PROPANE gas.

# 2 TECHNICAL DATA

## 2.1 PERFORMANCE - PROPANE GAS (CAT 13P 3P - G31 - 37 mbar)

### Alpha CD13R

Central Heating			MAX.	MIN.
Heat Input (H <sub>s</sub> ) (Gross)	kW		13.8	6.2
	Btu/h		47 000	21 100
Heat Input (H <sub>i</sub> ) (Net)	kW		12.4	5.6
	Btu/h		42 300	19 100
Heat Output (H <sub>s</sub> condensing) (50°C/30°C)	kW		13.1	5.9
	Btu/h		44 700	20 100
Heat Output (H <sub>i</sub> non-condensing) (80°C/60°C)	kW		12.1	5.4
	Btu/h		41 300	18 400
Differential Burner Pressure	Room sealed chamber panel fitted	mbar	2.0	0.5
		in wg	0.8	0.2
Gas Supply Pressure (LPG)	mbar	37.0		
	in wg	14.8		
Gas Rate (LPG)	m <sup>3</sup> /h	0.48	0.22	
	ft <sup>3</sup> /h	17.0	7.8	

### Alpha CD18R

Central Heating			MAX.	MIN.
Heat Input (H <sub>s</sub> ) (Gross)	kW		20.4	6.2
	Btu/h		69 600	21 100
Heat Input (H <sub>i</sub> ) (Net)	kW		18.4	5.6
	Btu/h		62 800	19 100
Heat Output (H <sub>s</sub> condensing) (50°C/30°C)	kW		19.6	5.9
	Btu/h		66 800	20 100
Heat Output (H <sub>i</sub> non-condensing) (80°C/60°C)	kW		18.0	5.4
	Btu/h		61 400	18 400
Differential Burner Pressure	Room sealed chamber panel fitted	mbar	4.2	0.5
		in wg	1.68	0.2
Gas Supply Pressure (LPG)	mbar	37.0		
	in wg	14.8		
Gas Rate (LPG)	m <sup>3</sup> /h	0.72	0.22	
	ft <sup>3</sup> /h	25.4	7.8	

### Alpha CD24R

Central Heating			MAX.	MIN.
Heat Input (H <sub>s</sub> ) (Gross)	kW		26.6	7.5
	Btu/h		90 700	25 600
Heat Input (H <sub>i</sub> ) (Net)	kW		24	6.8
	Btu/h		81 900	23 200
Heat Output (H <sub>s</sub> condensing) (50°C/30°C)	kW		25.6	7.2
	Btu/h		87 300	24 600
Heat Output (H <sub>i</sub> non-condensing) (80°C/60°C)	kW		23.5	6.5
	Btu/h		80 200	22 200
Differential Burner Pressure	Room sealed chamber panel fitted	mbar	6.4	0.6
		in wg	2.56	0.24
Gas Supply Pressure (LPG)	mbar	37.0		
	in wg	14.8		
Gas Rate (LPG)	m <sup>3</sup> /h	0.94	0.26	
	ft <sup>3</sup> /h	33.2	9.2	

## 2.2 GAS SUPPLY

The Alpha CD13R boiler requires a gas rate of 0.95 kg/h (2.0 lb/h) or 1.83 litres/h of liquid gas.

The Alpha CD18R boiler requires a gas rate of 1.43 kg/h (3.1 lb/h) or 2.75 litres/h of liquid gas.

The Alpha CD24R boiler requires a gas rate of 1.87 kg/h (4.0 lb/h) or 3.6 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 15 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 boilers have 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 - CD13R, 18R, 24R	1	4.0 mm	1.022509

## 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)

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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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