

GAS BOILER SYSTEM COMMISSIONING CHECKLIST

This Commissioning Checklist is to be completed in full by the competent person who commissioned the boiler as a means of demonstrating compliance with the appropriate Building Regulations and then handed to the customer to keep for future reference.

Failure to install and commission according to the manufacturer's instructions and complete this Benchmark Commissioning Checklist will invalidate the warranty. This does not affect the customer's statutory rights.

Customer name:				Telephone number:					
Address:									
Boiler make and model:									
Boiler serial number:									
Commissioned by (PRINT NAME):				Gas Safe register number:					
Company name:				Telephone number:					
Company address:									
				Commissioning date:					
To be completed by the customer on receipt of a Building Regulations Compliance Certificate*									
Building Regulations Notification Number (if applicable):									
CONTROLS (tick the appropriate boxes)									
Time and temperature control to heating	Room thermostat and programmer/timer			Programmable room thermostat					
	Load/weather compensation			Optimum start control					
Time and temperature control to hot water	Cylinder thermostat and programmer/timer			Combination Boiler					
Heating zone valves	Fitted			Not required					
Hot water zone valves	Fitted			Not required					
Thermostatic radiator valves	Fitted			Not required					
Automatic bypass to system	Fitted			Not required					
Boiler interlock				Provided					
ALL SYSTEMS									
The system has been flushed and cleaned in accordance with BS7593 and boiler manufacturer's instructions							Yes		
What system cleaner was used?									
What inhibitor was used?							Quantity	litres	
Has a primary water system filter been installed?							Yes	No	
CENTRAL HEATING MODE measure and record:									
Gas rate	m ³ /hr		OR		ft ³ /hr				
Burner operating pressure (if applicable)	mbar		OR Gas inlet pressure		mbar				
Central heating flow temperature							°C		
Central heating return temperature							°C		
COMBINATION BOILERS ONLY									
Is the installation in a hard water area (above 200ppm)?							Yes	No	
If yes, and if required by the manufacturer, has a water scale reducer been fitted?							Yes	No	
What type of scale reducer has been fitted?									
DOMESTIC HOT WATER MODE Measure and Record:									
Gas rate	m ³ /hr		OR		ft ³ /hr				
Burner operating pressure (at maximum rate)	mbar		OR Gas inlet pressure at maximum rate		mbar				
Cold water inlet temperature							°C		
Hot water has been checked at all outlets							Yes	Temperature	°C
Water flow rate							l/min		
CONDENSING BOILERS ONLY									
The condensate drain has been installed in accordance with the manufacturer's instructions and/or BS5546/BS6798							Yes		
ALL INSTALLATIONS									
Record the following:	At max. rate:		CO	ppm	AND	CO/CO ₂	Ratio		
	At min. rate: (where possible)		CO	ppm	AND	CO/CO ₂	Ratio		
The heating and hot water system complies with the appropriate Building Regulations							Yes		
The boiler and associated products have been installed and commissioned in accordance with the manufacturer's instructions							Yes		
The operation of the boiler and system controls have been demonstrated to and understood by the customer							Yes		
The manufacturer's literature, including Benchmark Checklist and Service Record, has been explained and left with the customer							Yes		
Commissioning Engineer's Signature									
Customer's Signature									
(To confirm satisfactory demonstration and receipt of manufacturer's literature)									

* All installations in England and Wales must be notified to Local Authority Building Control (LABC) either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer.



SERVICE RECORD

It is recommended that your heating system is serviced regularly and that the appropriate Service Interval Record is completed.

Service Provider

Before completing the appropriate Service Record below, please ensure you have carried out the service as described in the manufacturer's instructions. Always use the manufacturer's specified spare part when replacing controls.

SERVICE 01					Date:
Engineer name:					
Company name:					
Telephone No:					
Gas safe register No:					
Record:	At max. rate:	CO	ppm	AND	CO ₂ %
	At min. rate: (Where Possible)	CO	ppm	AND	CO ₂ %
Comments:					
Signature					

SERVICE 02					Date:
Engineer name:					
Company name:					
Telephone No:					
Gas safe register No:					
Record:	At max. rate:	CO	ppm	AND	CO ₂ %
	At min. rate: (Where Possible)	CO	ppm	AND	CO ₂ %
Comments:					
Signature					

SERVICE 03					Date:
Engineer name:					
Company name:					
Telephone No:					
Gas safe register No:					
Record:	At max. rate:	CO	ppm	AND	CO ₂ %
	At min. rate: (Where Possible)	CO	ppm	AND	CO ₂ %
Comments:					
Signature					

SERVICE 04					Date:
Engineer name:					
Company name:					
Telephone No:					
Gas safe register No:					
Record:	At max. rate:	CO	ppm	AND	CO ₂ %
	At min. rate: (Where Possible)	CO	ppm	AND	CO ₂ %
Comments:					
Signature					

SERVICE 05					Date:
Engineer name:					
Company name:					
Telephone No:					
Gas safe register No:					
Record:	At max. rate:	CO	ppm	AND	CO ₂ %
	At min. rate: (Where Possible)	CO	ppm	AND	CO ₂ %
Comments:					
Signature					

SERVICE 06					Date:
Engineer name:					
Company name:					
Telephone No:					
Gas safe register No:					
Record:	At max. rate:	CO	ppm	AND	CO ₂ %
	At min. rate: (Where Possible)	CO	ppm	AND	CO ₂ %
Comments:					
Signature					

SERVICE 07					Date:
Engineer name:					
Company name:					
Telephone No:					
Gas safe register No:					
Record:	At max. rate:	CO	ppm	AND	CO ₂ %
	At min. rate: (Where Possible)	CO	ppm	AND	CO ₂ %
Comments:					
Signature					

SERVICE 08					Date:
Engineer name:					
Company name:					
Telephone No:					
Gas safe register No:					
Record:	At max. rate:	CO	ppm	AND	CO ₂ %
	At min. rate: (Where Possible)	CO	ppm	AND	CO ₂ %
Comments:					
Signature					

SERVICE 09					Date:
Engineer name:					
Company name:					
Telephone No:					
Gas safe register No:					
Record:	At max. rate:	CO	ppm	AND	CO ₂ %
	At min. rate: (Where Possible)	CO	ppm	AND	CO ₂ %
Comments:					
Signature					

SERVICE 10					Date:
Engineer name:					
Company name:					
Telephone No:					
Gas safe register No:					
Record:	At max. rate:	CO	ppm	AND	CO ₂ %
	At min. rate: (Where Possible)	CO	ppm	AND	CO ₂ %
Comments:					
Signature					

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FLOWCHART FOR CO LEVEL AND COMBUSTION RATIO CHECK ON COMMISSIONING A CONDENSING BOILER

Important Preliminary Information on Checks

The air gas ratio valve is factory-set and must not be adjusted DURING COMMISSIONING.

If the boiler requires conversion to operate with a different gas family (e.g. conversion from natural gas to LPG) separate guidance is provided with the conversion kit supplied and this must be followed.

PRIOR TO CO LEVEL AND COMBUSTION RATIO CHECK

The installation instructions must have been followed, gas type verified and gas supply pressure / gas rate checked as required prior to commissioning.

As part of the installation process, ESPECIALLY WHERE A FLUE HAS BEEN FITTED BY PERSONS OTHER THAN THE BOILER INSTALLER, visually check the integrity of the whole flue system to confirm that all components are correctly assembled, fixed and supported. Check that maximum flue lengths have not been exceeded and all guidance has been followed (e.g. Gas Safe Register Technical Bulletin (TB) 008 where chimney/flues are in voids).

The ECGA should be of the correct type, as specified by BS 7967.

Prior to its use, the ECGA should have been maintained and calibrated as specified by the manufacturer. The installer must have the relevant competence for use of the analyser.

Check and zero the analyser IN FRESH AIR in accordance with the analyser manufacturer's instructions.

KEY:

CO = carbon monoxide

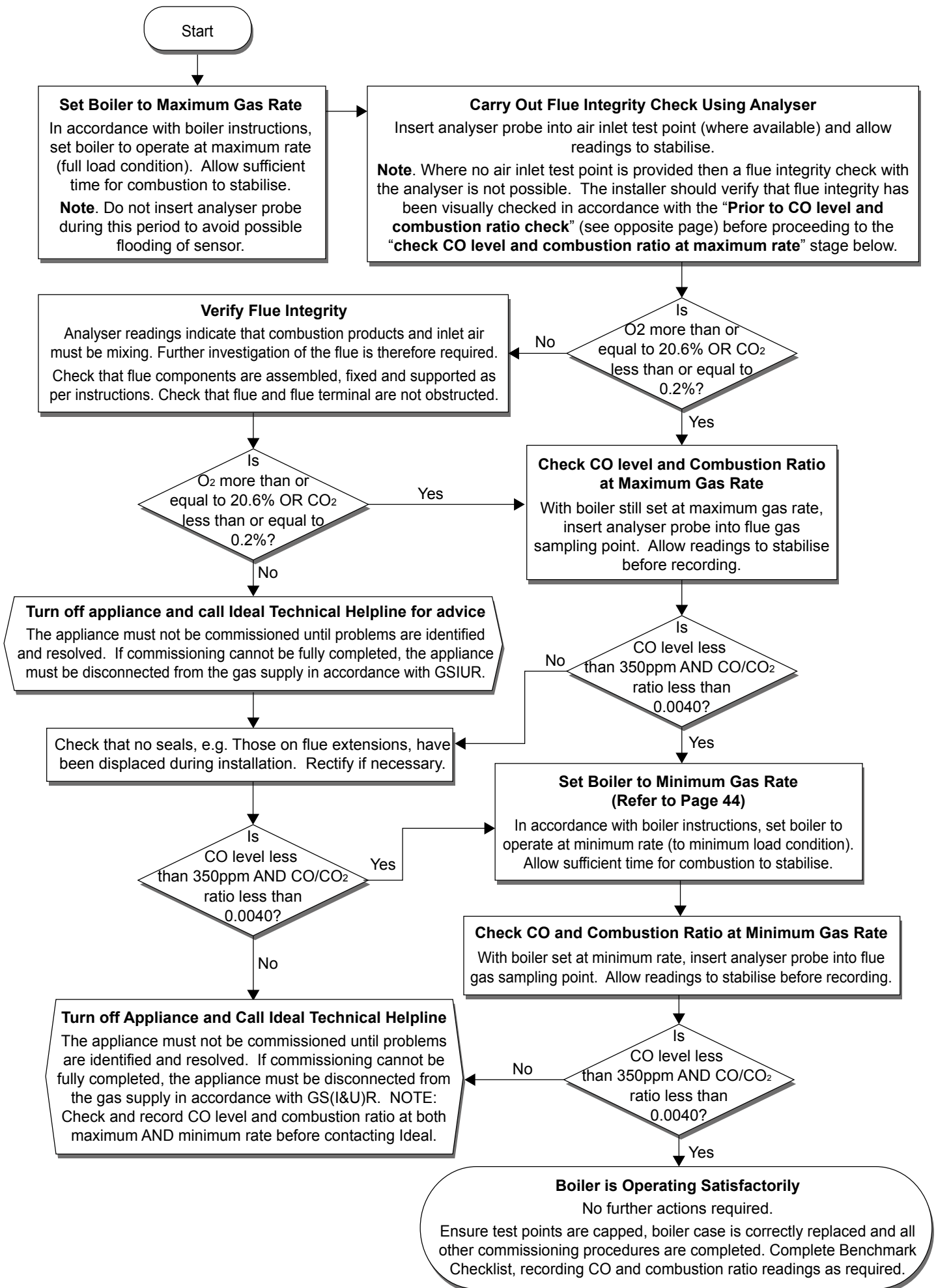
CO₂ = carbon dioxide

O₂ = oxygen

Combustion Ratio = The CO reading measured in ppm divided by the CO₂ reading first converted to ppm

ppm = parts per million

GS(I&U)R = Gas Safety (Installation and Use) Regulations





The code of practice for the installation, commissioning & servicing of central heating systems

Technical Training

The Ideal Technical Training Centre offers a series of first class training courses for domestic, commercial and industrial heating installers, engineers and system specifiers. For details of courses please ring:..... 01482 498 432



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