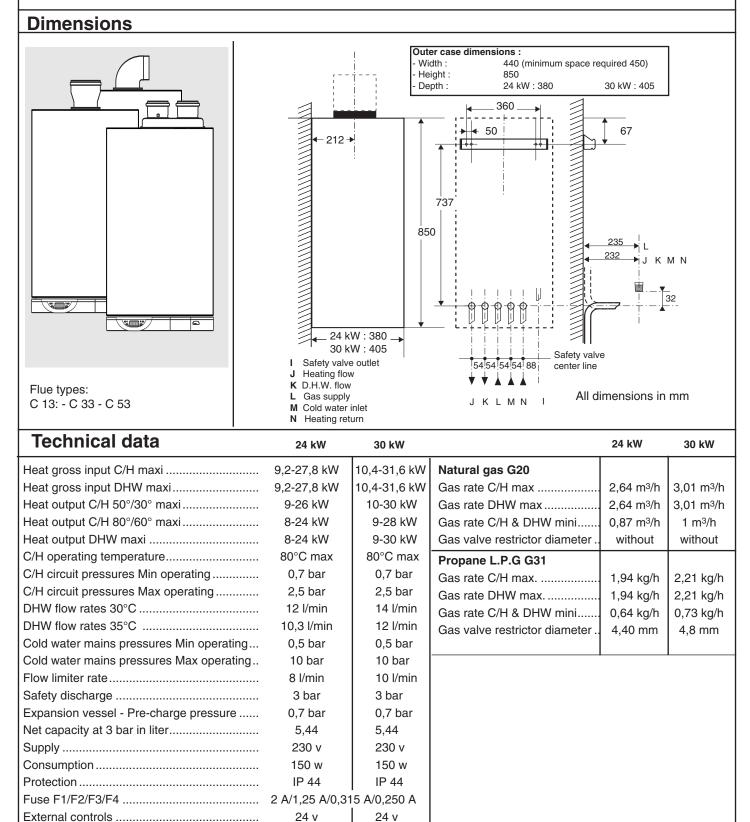


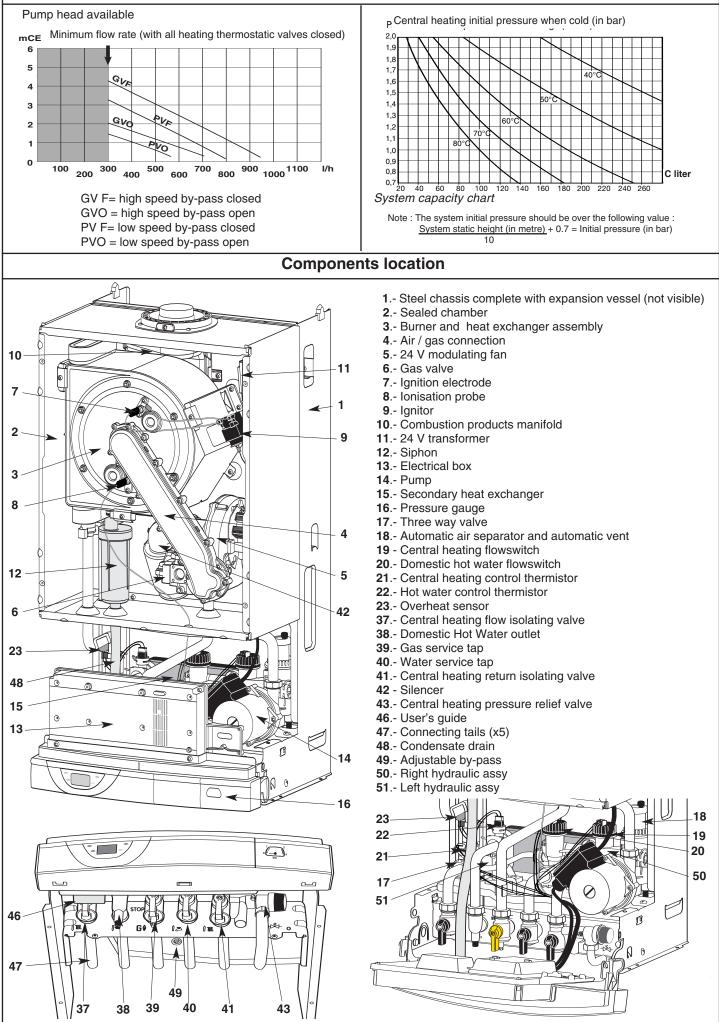
MAINTENANCE AND SERVICE GUIDE



Fanned Flue Condensing Combination Boiler Heating and Storage Domestic Hot Water

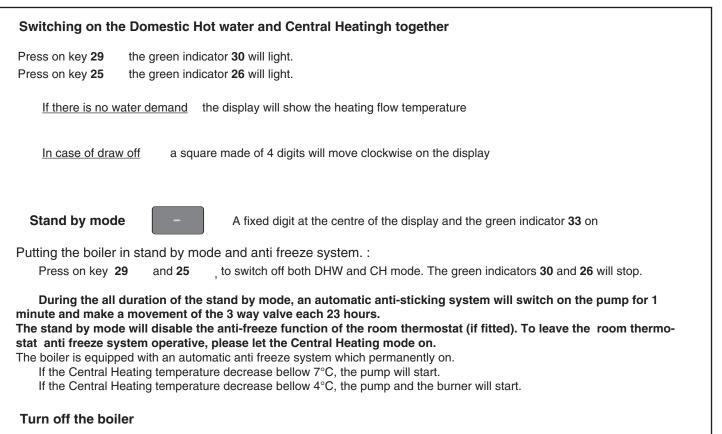


Pump and expansion vessel characteristics



FUNCTIONING Control panel 34 36 35 33 24.- Display 25.- Domestic Hot water switch 26.- Green indicator – Domestic Hot Water mode ON 27.- D.H.W. temperature reducing key 28.- D.H.W. temperature increasing key DHW mode indicator 29.- Central Heating switch 30.- Green indicator – Central Heating mode ON **31**.- Central Heating temperature reducing key 32.- Central Heating temperature increasing key 33.- Green indicator - Power ON 34.- Orange indicator - Burner ON 35.- Red indicator - Lock out / flame failure 36.- Reset key 32 31 29 30 28 27 Switching on 1. Check that pressure in central heating system is above 0.7 bar and below 1.5 bar with the pressure gauge 16. 2. Check that the gas service tap is opened at the gasmeter and main power is on. Green indicator () Power ON 33. 3. Open the gas tap 39. The boiler is now ready to use. Attention ! If the boiler stays a long time without working, some air in the gas pipe can hinder the first lightings. (please refer to paragraph 18 Incorrect Function) Switching on Central heating Press on key 29 "IIII , the green indicator 30 will light and the display will show the Heating flow temperature. Keys 31 and 32 allow to adjust the temperature required in the Central Heating system regarding the weather conditions. to increase temperature when weather is cold press • press to reduce temperature when weather is fair During the temperature setting operation the display will flash. If the room thermostat is calling for heat, a dot will be displayed at the bottom of the 3rd digit Switching on the Domestic Hot water Press on key 25 🔊 , the green indicator 26 will light : If there is no water demand the display will show the following graphic In case of draw off a square made of 4 digits will move clockwise on the display Keys 27 - and 28 + allow to adjust the temperature required for the Domestic Hot Water flow. During the temperature setting operation the display will flash. Note: The configuration of CH system can generate some gravity effect when the boiler is set in DHW mode only. It may result a

Note : The configuration of CH system can generate some gravity effect when the boiler is set in DHW mode only. It may result a temperature rise of the heating pipes close to the boiler (or eventually a radiator). To avoid that, it is possible to close during summer period (Central Heating switched off) the heating flow isolating tap (**37**). Don't forget to open it when you will switch on the Central Heating mode again.



- Press on key 29 and 25 to switch off both DHW and CH mode. The green indicators 30 and 26 will stop

- Switch off the main electrical supply

- Shut off the gas service tap 39

Note : In this conditions, the anti-freeze system is inoperative

Domestic Hot Water Mode

To be able to supply hot water, the DHW mode should be ON. Press on key ${\bf 25}$

, the green indicator **26** will light. If there is no water demand, the display will show the following graphic In case of draw off, a square made of 4 digits will move clockwise on the display

Keys **27** and **28** allow to adjust the temperature required for DHW, flow. During the temperature setting operation, the display will flash.

When a tap or a shower is turned on, the flow of mains water, above 2 litres per min., will activate the DHW flow switch **20** and allow the 3 way valve **17** to move to the DHW position. The pump can now circulate primary water heated by the main exchanger through the secondary heat exchanger. The primary flow switch controls that this flow rate is over 4lt./min. to allow the lighting sequence to begin.

The fan on the gas valve assembly starts and when the lighting speed is reached (detected by a hall effect sensor) the 2 safety solenoids open together to allow gas to the burner. The ignition sequence begins and a continuous high speed spark ignites the gas. As soon as a flame is detected, the orange indicator led **34** will light and the regulation system will be able to adjust the gas rate regarding the heat load. If a flame is not detected, after 10 seconds, the security solenoids close together and shut off the gas. The red lockout indicator led **35** will light. Press the reset button to re-light the burner.

The domestic hot water temperature is controlled by the hot water control thermistor 22 and the central heating control thermistor 21. This system anticipates the changes of temperature in the secondary heat exchanger and ensures accurate temperature regulation. When the tap is closed, the burner is extinguished and the pump stops. The boiler will now stay in the hot water mode for 3 minutes to maintain temperature to ensure a fast response in the event of a subsequent hot water demand. Priority will be given to a demand for hot water. This will interrupt the central heating for the duration of hot water delivery.

Central Heating Mode

To be able to supply heating, the mode should be switched ON. Press on key **29**

, the green indicator **30** will light, and the display will show the Heating Flow temperature.

Keys **31** and **32** allow to adjust the temperature required for Central Heating system regarding the weather conditions. During the setting operation, the display will flash.

When there is a demand for heating,

(either from the room thermostat or the clock) the pump starts. If the boiler temperature control is calling for heat and the primary flow rate over 4 lt./min., the central heating flow switch operates, allowing the ignition sequence to begin. The fan on the gas valve assembly starts and when the lighting speed is reached (detected by a hall effect sensor) the 2 safety solenoids open together to allow gas to the burner. The ignition sequence begins and a continuous high speed spark ignites the gas. As soon as a flame is detected, the orange indicator led 34 will light and the regulation system will be able to adjust the gas rate regarding the heat load. If a flame is not detected, after 10 seconds, the security solenoids close together and shut off the gas. The red lockout indicator led 35 will light. Press the reset button to re-light the burner.

The central heating flow temperature is controlled by the central heating control thermistor **21**. The boiler has been designed to minimise cycling and will not attempt to re-light for at least 3 min. after the boiler thermostat has been satisfied. When the room thermostat is satisfied , the burner will switch off and the pump will remain running for a further 3 minutes before it too stops. Note

It is possible to override the 3 minute delay by pressing the Reset key **36**.

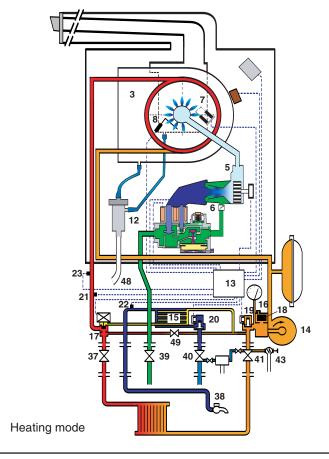
Lockout procedure

Flame disappearance : When the ionisation electrode **8** does not detect flame presence. The orange indicator led **34** extinguishes. A lighting cycle starts. If a flame is not detected, before 10 seconds, the safety solenoids will close. The lockout red indicator **35** lights and the display shows the error code. The pump runs and the 3 way valve **17** stays in its position. After a few seconds, it will become possible to reset the boiler by pressing the reset key **36**.

Overheat detection :

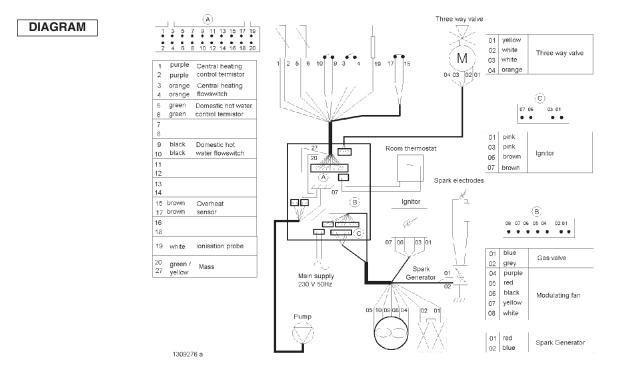
If an overheat (over 100°C) is detected in the primary circuit by the sensor **23**, the safety solenoids close and the fan stops.

The orange led **34** extinguishes and the pump remains running for 3 minutes. The reset will be possible when the primary temperature will decrease under 76° C.



CENTORA GREEN FUNCTIONAL DIAGRAM

ELECTRICAL WIRING



Hot water mode

CTION	CONFIGURATION					
5 "	Menu - 1 - Default register Record the last 10 defaults					
	Section	Digit 1	Digit 2 and 3			
	Last default occured	0.	code from 01 to 99			
• • • •	Last but one default occurred	1.	code from 01 to 99			
x times			code from 01 to 99			
• • • • •	Last default occurred before the previous one	9.	code from 01 to 99			
• • • • •	Note is displayed if no default is recorded					
	Menu - 2 - Boiler co Indicates the conditions or the conf		of the boiler			
once	Menu - 2 - Boiler co Indicates the conditions or the conf Section	igurations				
once	Indicates the conditions or the conf		of the boiler Digit 2 and 3 10 to 99			
once	Indicates the conditions or the conf	igurations	Digit 2 and 3			
once x times	Indicates the conditions or the conf	igurations Digit 1 0.	Digit 2 and 3 10 to 99 1 : FF			
	Indicates the conditions or the conf	Digit 1	Digit 2 and 3 10 to 99 1 : FF variable speed			
	Indicates the conditions or the conf	Digit 1	Digit 2 and 3 10 to 99 1 : FF variable speed 0 : no			
	Indicates the conditions or the conf	Digit 1 0. 2. 3. 3.	Digit 2 and 3 10 to 99 1 : FF variable speed 0 : no 1 : yes			
	Indicates the conditions or the conf	igurations Digit 1 0. 2. 3. 3. 4.	Digit 2 and 3 10 to 99 1 : FF variable speed 0 : no 1 : yes 0 : DHW			
	Indicates the conditions or the conf Section Software version of display PCB Flue type Room thermostat is calling for heat Theoretical position of the 3 way valve	igurations Digit 1 0. 2. 3. 3. 4. 4. 4.	Digit 2 and 3 10 to 99 1 : FF variable speed 0 : no 1 : yes 0 : DHW 1 : CH			

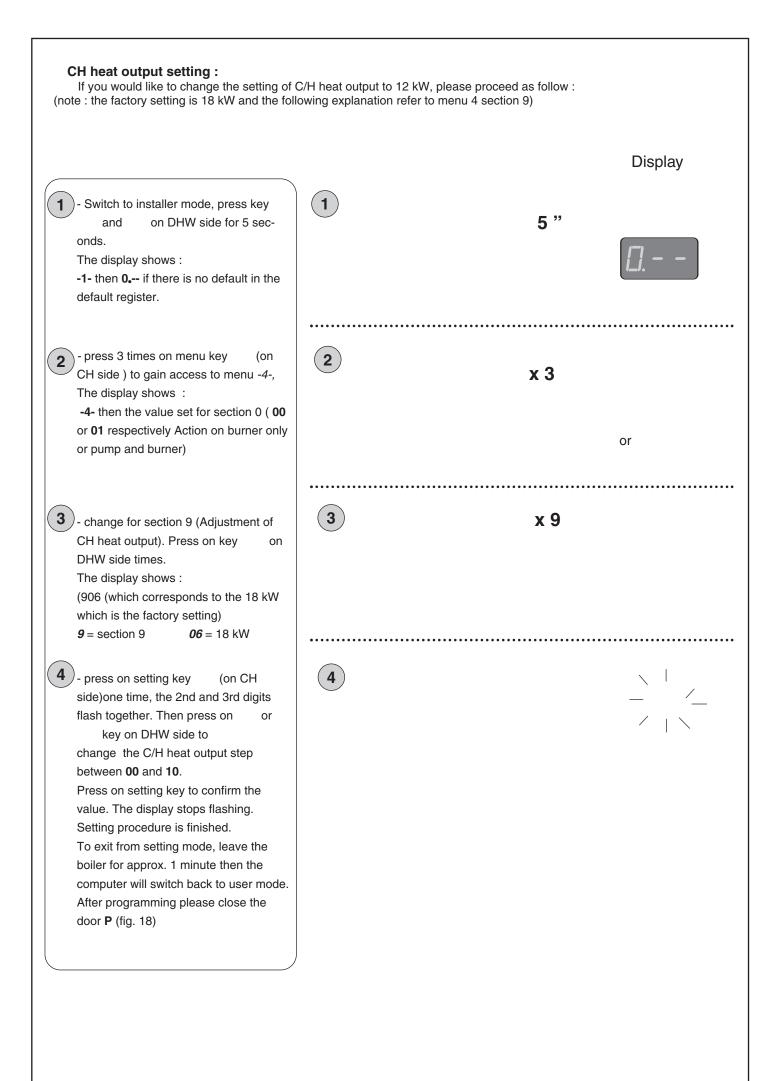
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ACTION	CONFIGU	RATION			DISPLAY	•
	Menu - 3 - Bo	-] -	ry Jg			
once	Section	[2 ;	Digit and 3	•	Factory setting	
Unce	Under floor heating system	0	0 : no		•	•
			1 : yes			• • • • • • •
x times	Celectic	4	0 : no		4 []	•
					4 1	•
6 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	DHW Delay (time before CH relight after a DHW cycle)	5	0 to 5 m	n by step 0.5mn	5 3.0	• • • •
	DHW flow swith Delay (time before DHW flow detection to override pressure peak problem)	6	0 to 20 1	/10 seconde	60	• • • • •
ACTION	CONFIGU	RATION			DISPLAY	
	Menu - 4 - E	Boiler se	ttings		- 4 -	∑ ō
	Section		Digit 1	Digit 2 and 3		Factory setting
once	Room thermostat operation		0	0 : Burner only		
			0	1 : Burner and pump		•
	Pump speed		1	0 : High speed		• • • •
x times			1	1 : Low speed		•
	Pump post circulation duration		2	0 ,0 min	20.0	•
	From 0 to 5 minutes by step of 0.8	2	0,5 min	20.5		
			2	1,0 min		•
			2	5,0 min		• • • •
	Maximum Central Heating flow ter	nperature	4	50°C		•
			4	80°C	780	•
	CH anti cycling delay		8	0,0 min	au.u	• • •
	From 0 to 7 minutes by step of 0.8	5 min. 	8	0,5 min	84.5 0	• • •
			8	2,5 min		•
			8	5,0 min	85.0	• • •
	CH maximum output limitation Model 24			Malast	•	•
	From step 0 (P. min.) 8 kW to step 10 (P. max.) 24 kW Model 30		9	Value from 0 to 10	(nnc)	
	From step 0 (P. min.) 9 kW to step 10 (P. max.) 28 kW		9	Value from 0 to 10	[306]	V

ACTION	CONFIGURATION					
	Menu - 5 - Combustion rate control mode					
press once			•			
	Effect	Display	•			
wait 5 "	Combustion rate control mode OFF		— . — . — .			
	Switching on the combustion rate control mode. Central heating output	Central heating temperature is dis- played in celsius degrees.				
	reach the maximum power set in menu 4 section 9.	The 3 dots indicate that the combus- tion rate control is ON at maximum	•			
press once	Switching the combustion rate down to minimum power.	Output. Central heating temperature is dis- played in celsius degrees. The dot indicates that the combus- tion rate control is ON at minimum output.	X.X 🖻			
press once			•			
press once	Switching on the combustion rate to maximum output set in menu 4 sec- tion 9.	Central heating temperature is dis- played in celsius degrees. The 3 dots indicate that the combus- tion rate control is ON at maximum output.	X.X. ¤.			
press once	Switching off the combustion rate control mode.					
Locking conditions of t	he combustion rate control mode :					

- boiler in stand by mode
- D.H.W. draw off
- room thermostat is not calling for heat
- room thermostat is calling for heat but the maximum temperature is reached
- boiler in lockout mode
- after a reset or if the main supply fails
- end of the mode if operator leave menu 5
- after 15 minutes if there is no actions on keyboard

Nota : As soon as the combustion rate control mode is on, Central Heating and Domestic Hot Water keys are inactive.



REGULATION

Temperature regulation for both C/H and DHW circuits are controlled by 2 thermistors. The C/H knob allows the adjustment of temperature between 35 and 85°C. The DHW temperature is limited to 60°C. DHW and C/H thermistors are identical and interchangeable.

Resistance value are

- 5000 Ω at	25 °C
- 2631 Ω at	40°C
- 620 Ω at	80°C
OFF O at	11000

- 255 Ω at 110°C

ROUTINE SERVICING

To ensure continued efficient operation of the appliance, it is recommended that it is checked and serviced as necessary at regulars intervals. The frequency of servicing will depend upon the particular installation condition and usage, but in general, once a year should be adequate.

It is the law that any service work must be carried out by a competent person such as your local Chaffoteaux Service Centre, British Gas or other CORGI registered personnel in accordance with the current Gas Safety (Installation and Use) regulation.

Attention ! the air/gas connection pipe between the gas valve and the burner should never open. The seal can be checked only in the factory.

The service schedule should include the following operations :

- Check the pressure in the system
- Check the correct operation of the appliance
- Check the correct operation of the gas controls
- Check the functions of safety controls
- Clean the electronic board of the fan located on the gas valve assembly and the different transformers in the sealed chamber.
- Check combustion chamber insulation panels for damage
- Check the lighting and ionisation electrodes condition
- Clean the burner (Never use metallic brush which can damage the stainless steel)
- Clean the heat exchanger (Never use metallic brush which can damage the stainless steel)
- Clean the siphon and pay attention to the acidity of its contents
- Check the correct seal of the drain system
- Clean gas and water filters
- Check expansion vessel charge pressure
- Clean an check operation of safety valve
- Check the correct seal of the flue system.

Additional procedures that may be necessary :

- Check the burner pressure and the gas flow rates
- Check, clean or replace components as necessary
- Carry out combustion test utilising the test points in the flue turret

Suggested sequence for servicing :

Before disconnecting or removing any part, isolate the gas and electricity supplies. Ensure that the appliance is cool, and take care about the condensats products content in the siphon which are acid.

(For detail, please see section on Parts Removal and Replacement)

Preliminary checks

- Remove outer case
- Check the system pressure is at least 0.7 bar cold
- Check the modulation of the gas valve in DHW mode by reducing progressively the flow rate at a tap.
- Check that the burner is extinguished fully when both solenoids are closed and fan is off.
- Test ionisation functions and check that lockout occurs by turning off gas tap.
- Whilst boiler is operating, check operation of the primary flow switch by closing heating flow valve and by pass screw (turn clockwise) noting the number of turns so that it may be reset correctly.
- Control the correct flood of condensats in the siphon which is transparent.

FLOW SWITCHES

Flow in both D.H.W. and Heating circuits are detected by 2 flow switches. A piston with a magnet at the top operates a REED switch. The piston is lifted by flow rates listed below :

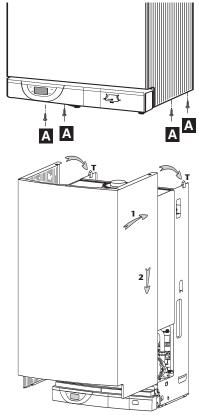
Flow rate threshold : D.H.W. 120 l/h ±20 l/h C/H 250 l/h ±20 l/h

REMOVAL AND REPLACEMENT OF PARTS

Before removing appliance case, isolate the gas and electrical supplies. Isolate boiler from the system and drain before removing any component in the waterways. Ensure that the appliance is cool.

1. Outer Case

Remove four screws in base of case and lift free. When replacing, carefully locate on lugs T on top edge of chassis.



2. Sealed chamber front panel

Unscrew four self taping screws securing the sealed chamber front panel and lift over top corner locating lugs. Reassemble in reverse order.

3. Combustion Chamber front panel and air/gas connection

Carry out step 1 and 2 as above. Unscrew three screws securing the air/gas connection pipe onto the gas valve assembly. Disconnect Ionisation and lighting electrodes from their wiring. Unscrew six nuts to release combustion chamber front panel and pull the assembly towards you. Reassemble in reverse order.

4. Ionisation electrode

Carry out step 1 and 2 as above. Disconnect ionisation electrode from its wiring. Loosen the 2 screws and pull it out from the combustion chamber front panel. Replace the ionisation gasket provided. Reassemble in reverse order.

5. Lighting electrode

Carry out step 1 and 2 as above. Disconnect lighting electrode from its wiring. Loosen the 2 screws and pull it out from the combustion chamber front panel. Replace the ionisation gasket provided. Reassemble in reverse order.

6. Burner

Carry out step 1, 2 and 3 as above. Remove the 4 Philips screw retaining the burner onto the combustion chamber. Pull it out with care to avoid any damage to the ceramic panel protecting the combustion chamber front panel. Replace the burner gasket. Reassemble in reverse order.

7. Gas vale assembly

Carry out step 1 and 2 as above. Unscrew three screws securing the air/gas connection pipe onto the gas valve assembly. Disconnect the connectors from gas solenoids and fan. Loosen the gas pipe nut. Unscrew six nuts to release combustion chamber front panel and pull the assembly towards you. Replace gas filter before fitting the full assembly back in the boiler.

8. Fan assembly

Carry out all operations mentioned in step 7. Unscrew the three screws securing the air/gas connection pipe onto the gas valve assembly. Separate the gas valve assembly and the venturi from the fan assembly by loosen the two hexagonal head screws. Reassemble in reverse order and replace the necessary gaskets.

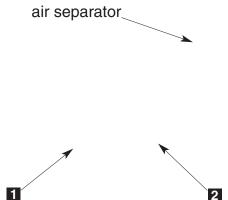
9. Gas section

Carry out all operations mentioned in step 7. Unscrew the three screws securing the air/gas connection pipe onto the gas valve assembly. Separate the gas valve assembly and the venturi from the fan assembly by loosen the two hexagonal head screws. The venturi and the gas section can be separated loosing the 2 screw located at the top of the gas valve. Replace necessary gaskets before reassemble in reverse order.

10. Venturi in the gas section

Carry out all operations mentioned in step 7. Unscrew the three screws securing the air/gas connection pipe onto the gas valve assembly. Separate the gas valve assembly and the venturi from the fan assembly by loosen the two hexagonal head screws. The venturi and the gas section can be separated loosing the 2 screw located at the top of the gas valve. Replace necessary gaskets before reassemble in reverse order.

- 11. Drain down
- 3 drain points are located on the boiler.
- 1 = DHW circuit drain point
- 2 = Heating circuit drain point



12. Water filters (DHW and Heating) The DHW filter ensures a seal between the connecting bracket and the pipe to the DHW flow switch. Drain the boiler as in step 12. Unscrew the pipe nut and remove the clip on the hydraulic assy. Pull the pipe toward you and remove the water filter from its location.

The C/H filter is located in the right hydraulic assembly. Remove the return pipe as described previously and withdraw the filter. Reassemble in reverse order.

13. Flow switches

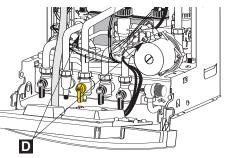
Drain boiler as in step 12. Disconnect the electrical plug, turn the top cover anti-clockwise, remove the O-ring and the brass piston. Reassemble in reverse order.

14. 3-Way valve

Drain boiler as in step 12. Remove the 3 clips on the 3 way valve. Remove the clip on the exchanger flow pipe. Pull the pipe down then pull it out of the 3 way valve. Disconnect the plug from the motor. Unscrew the nut on the pipe between the connecting bracket and the 3 way valve and pull it toward you. Rotate the 3 way valve body anti-clockwise to unclip it from the left hydraulic assembly.

15. Secondary heat exchanger

Drain both circuits of the boiler as in step 12. Unscrew the 2 fixing screws **D** and remove the DHW exchanger from the front. Prior to reassembly, check that the 4 gaskets are correctly positioned. The heat exchanger is so designed that it cannot be remounted incorrectly.



16. Main heat exchanger

Carry out step 1 and 2 as above. Drain down the boiler as in step 12. Unscrew three screws securing the air/gas connection pipe onto the gas valve assembly. Disconnect lonisation and lighting electrodes from their wiring. Unscrew six nuts to release combustion chamber front panel and pull the assembly towards you. Undo the two clips of the pipes to the main exchanger and pull down the pipes. Unscrew the three screws located at the bottom, top left and at the right with the retaining system to be able to pull the main heat exchanger towards you.

Reassemble in reverse order taking care about the location of the gasket on the fumes collector and replace the necessary gaskets.

17. Pump

G

Drain boiler as in step 12. Pivot the electical box downwards. Open the electrical box cover removing the 2 screws. Remove the pump plug from the power board and earth plug from earth socket. Unscrew the nut \mathbf{F} of the return pipe from the volute. Remove the clip \mathbf{G} on the pump volute and pull the pump toward you. Reassemble in reverse order.

22. Main contro Carry out step down electrica retaining tabs P wiring cover C. U electrical rear Unplug all cable earth plug from the main PCB. order.

19. Thermistors

Drain the boiler as step 12. Disconnect the plug, remove the retaining clip pull the thermistor out. Reassemble in reverse order.



22 = DHW thermistor

21 = Heating thermistor

20. Safety thermostat

Remove the casing as step 1 and hinge down the electrical box as step 5. Disconnect the 2 cables, pull out the sensor with the clip (13). Reassemble in reverse order.



21. Spark generator

Carry out step 1 and 2 as above. Unplug the connector from the spark generator located on the right hand side of the main heat exchanger. Loosen the two screws to remove the igniter. Reassemble in reverse order.

22. Main control board

Carry out step 1 as above and hinge down electrical box by pressing the retaining tabs \mathbf{P} on either sides. Remove wiring cover \mathbf{C} . Undo the 4 screws of the electrical rear panel and remove it. Unplug all cables from the PCB, remove earth plug from earth socket. Hang out the main PCB. Reassemble in reverse order.

23. Display PCB

Carry out step 1 as above and hinge down electrical box by pressing the retaining tabs P on either sides. Remove the pressure gauge clip. Rotate the electrical box back in upper position. Undo the 2 screws retaining the front panel, put your two hands at the bottom of the front panel and pull it down to release it from the 2 clips. Hinge down again the electrical box. Undo the 4 screws of the electrical rear panel and remove it. Unplug the display board cables from the main PCB. Reassemble in reverse order.

24. Expansion vessel

Remove the casing as step 1 and drain the boiler as step 12 above. Unscrew the connecting tails nuts and lift out the boiler from the wall. Place it on a side on the floor. Remove the expansion vessel bracket retaining screws, disconnect the pipe from the vessel and pull it toward you. Reassemble in reverse order.

25. pressure gauge

Carry out step 1 as above and drain the boiler as step 12. Hinge down electrical box by pressing the retaining tabs P on either sides. Press on the clip to remove it and pull it out. Remove the clip which hold the connection of the capillary on the pump hose. Hang out the pressure gauge with its capillary. Reassemble in reverse order.

26. condensate trap

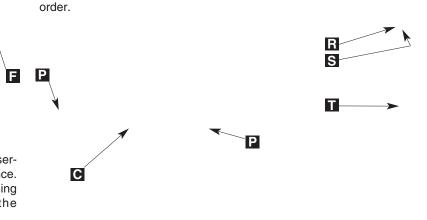
Carry out steps 1 and 2 as above. Remove the clip (\mathbf{R}). Remove the silicone tube (\mathbf{S}) between the condensate trap and the burner.

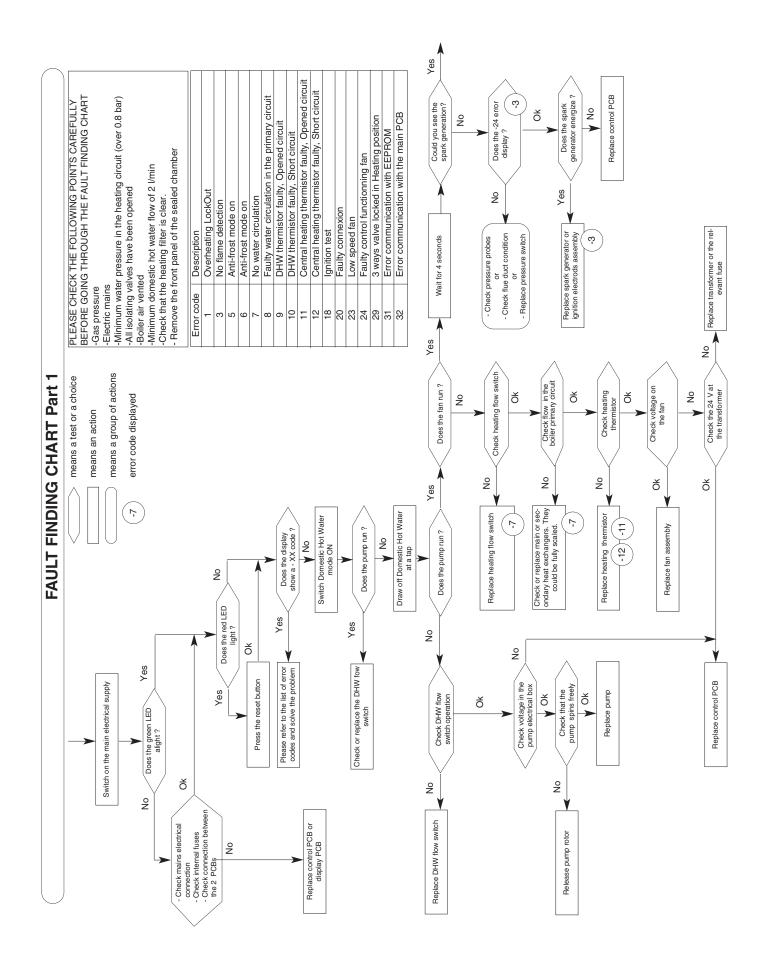
Remove the PVC tube (**T**) using for the evacuation of condensation.

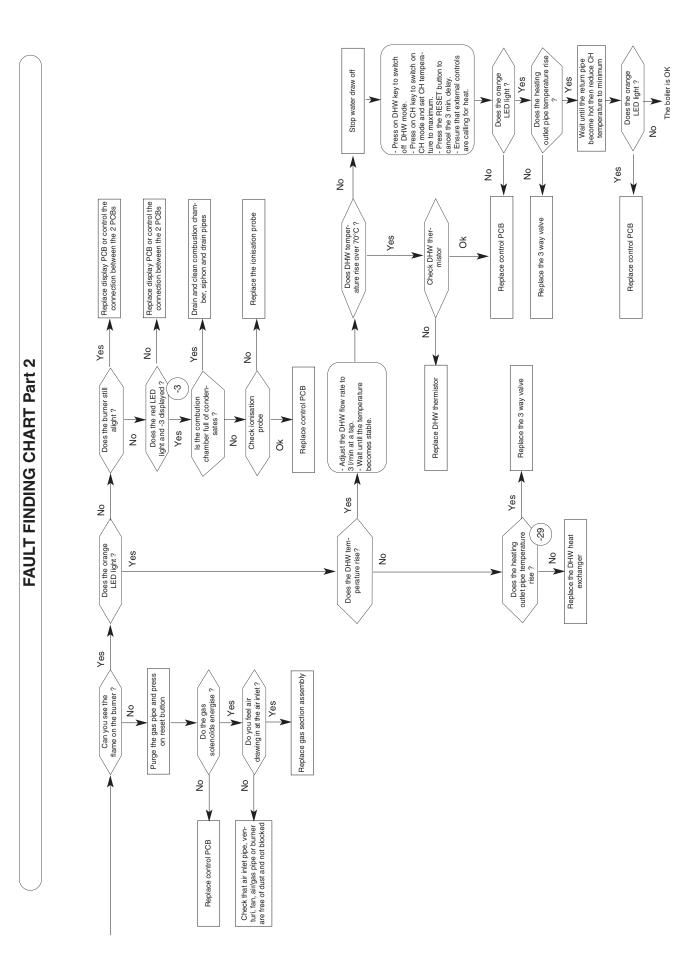
Reassemble in reverse order taking care the new condensate trap is filled with water before putting it into the boiler.

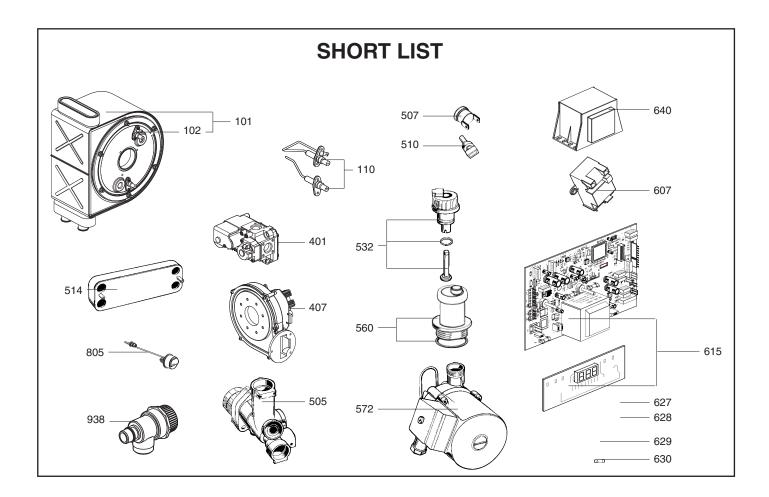


The pressure relief valve can be serviced from the front of the appliance. Drain the boiler first, undo the retaining screw and pull out the valve.Reassemble in reverse order.









									4	7
Key	N° Description	G.C	N°/Manf. Pt.		e /å	~0 ~~~/		/	Manf	f. date
			/	/ "	FF	70	3 7/	fi	rom /	/ to
101	BURNER		61306074		•					
	BURNER		61309327							
102	DOOR ASSY		61308492		•					
	DOOR ASSY		61308491				•			
110	ELECTRODE KIT		61309624		•		•			
401	GAS SECTION ASSY		61312986	B/P	•					
	GAS SECTION ASSY		61312987	B/P			•			
	GAS SECTION ASSY		61307584	NAT	•					
	GAS SECTION ASSY		61310129	NAT						
407	FAN ASSY		61307585		•					
505	THREE-WAY VALVE	277833	61010000		•					
507	OVERHEAT THERMOSTAT 100°C	277783	61010572		•		>			
510	THERMISTOR TEMP. SENSOR	277834	61000733		•		>			
514	WATER/WATER HEAT EXCHANGER	E00612	61011164		•					
532	WATER THROTTLE	277846	60081471		•		•			
560	AIR SEPARATOR HEAD ASSEMBLY	277857	61002653		•		•			
572	PUMPE UP 15/50 230V	E11662	61010612		•		•			
607	IGNITER	379075	61002105.20		•		•			
615	PRINTED CIRCUIT BOARD		61310357		•		•			
627	FUSE 250V 2A - TEMPORIZED	277883	61003456		•		•			
628	FUSE 250V 1A - TEMPORIZED		61003634		•		•			
629	FUSE 250V 1,25A - TEMPORIZED	277884	61003635		•					
630	FUSE 250V 0,315A - TEMPORIZED		61307845		•		•			
640	TRANSFORMER		61307647		•					
805	PRESSURE GAUGE		61303158		•					
938	PRESSURE RELIEF VALVE		61020933		•					

This appliance is suitable for Natural gas or LPG. A gas conversion must be made by a competent person.

Chaffoteaux & Maury are continuously improving their products and therefore reserve the right to change specifications without prior notice and accepts no liability for any errors or omission in the information contained in this document.

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