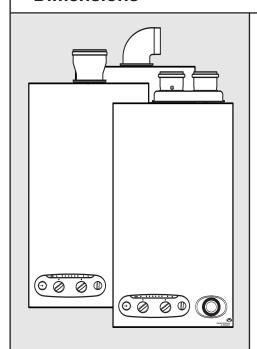


MAINTENANCE AND SERVICE GUIDE



Fanned Flue Combination Boiler Heating and Storage Domestic Hot Water

Dimensions



The boiler is suitable for the 4 flue types:

- type C 12
- type C 22
- type C 32 xx or C 32 xy
- type C 52

Safety valve outlet

All dimensions in mm

J Heating flow K D.H.W. flow

L Gas supply

M Cold water inlet

N Heating return

Outer case dimensions :

- Height: 850

- Width: 440 (minimum space required 450)

- Depth: 380 Fig. 1

Technical data

Heat input C/H & DHW Cal. comfort 80 : 11.73 to 28.70 kW

Cal. comfort 100:15.43 to 31.57 kW

Heat output C/H & DHW Cal. comfort 80 : 9.5 to 24 kW

Cal. comfort 100:12.5 to 28,2 kW

Max. operating pressure C/H circuit : 2.5 bar Expansion vessel net capacity : 5.44 I Expansion vessel initial pressure : 0.7 bar Electrical consumption : 150 w : 230 v Voltage Electrical protection index : IP44

Fuses : 2 A and 1.25 A DHW flow rate at @ AT 30 K Cal. comfort 80 :

Cal. comfort 100 : 14.1 l/min

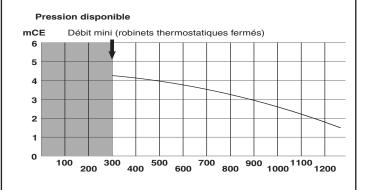
DHW flow rate at @ AT 35 K Cal. comfort 80 : 10.4 l/min

Cal. comfort 100 : 12.1 l/min

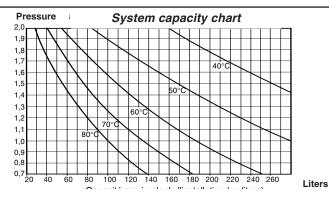
Minimum DHW operating flow rate 2.00 l/min Minimum DHW working pressure 0.5 bar Maximum DHW working pressure 10 bar Gas category : II 2H 3+

1 4000	. and2071				
Nominal gas flow rate at 15°C and 1013 mbar	Calydra.	Calydra. comfort 80		Calydra. comfort 100	
	Maximum	Minimum	Maximum	Minimum	
	power 25,9 kW	power 9.5 kW	power 31,1 kW	power 9,5 kW	
- Natural gas (G 20) at 20 mbar	2.74 m ³ /h	1.00 m ³ /h	3.29 m ³ /h	1.00 m ³ /h	
- Butane gas (G 30) at 28 mbar	2.04 kg/h	0.74 kg/h	2.45 kg/h	0.74 kg/h	
- Propane gas (G 31) at 37 mbar	2.00 kg/h	0.72 kg/h	2.42 kg/h	0.72 kg/h	
Injectors and gas valves seat diameter	Calydr	ra. comfort 80 Caly		ra. comfort 100	
	Natural gas	Butane or Propane	Natural gas	Butane or Propane	
- Solenoid restrictor diameter	2.60 mm	1.75 mm	2.90 mm	2.00 mm	
- Gas valve restrictor diameter	6.70 mm	4.90 mm	no resrictor required	6.70 mm	
- Manifold injectors (16)	1.23 mm	0.70 mm	1.28 mm	0.76 mm	

Pump and expanssion vessel characteristics



Head available / flow



Note: The system initial pressure should be over the following value: System static height (in metre) + 0.7 = Initial pressure (in bar)

Components location

- 21. DHW pressure relief valve
- 34. Heating Flow isolating valve
- 35. DHW outlet

- 36. Gas service tap
- 37. Water service tap
- 38. CH Return isolating valve

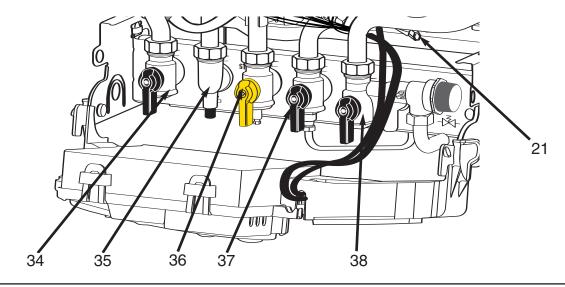


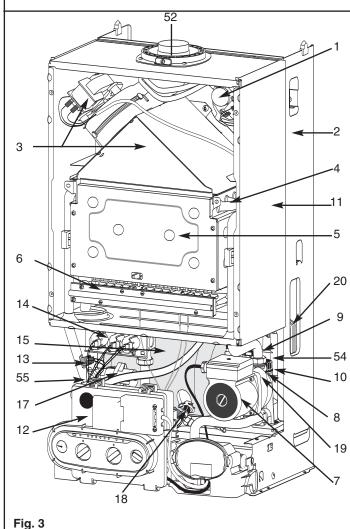
Fig. 2

- 1. Air Pressure switch
- 2. Steel chassis complete with expan sion vessel
- 3. Fan
- 4. Main heat exchanger
- 5. Combustion chamber made of aluminium coated steel with 4 ceramic fibre panels to provide heat insulation
- 6. Multigas burner comprising:
 - 6a. 16 burner head
 - 6b. Manifold
 - 6c. 2 Ignition electrode
 - 6d. Ionization electrode
- 7. Single speed pump
- 8. Heating flow switch
- 9. Automatic air separator and autimatic 25. Heating flow temperature adjustment vent
- 10. DHW thermistor

- 11. Sealed chamber
- 12. Electrical box
- 13. Overheat safety cutou
- 14. Gas section comprising:
 - 14a. Security valve (grey)
 - 14b. 1/3 gas stage (blue)
 - 14c . 2/3 gas stage (black)
- 15. TSS mini cylinder
- 16. Central heating control thermistor
- 17. Three way valve
- 18. TSS thermistor
- 19. DHW flow switch
- 20. Secondary heat exchanger
- 23. Two position selector switch
- 24. DHW temperature adjustment
- 26. Heating temperature indicator lights
- 27. Green indicator Power ON

- 28. Orange indicator Burner ON
- 29. Red indicator Lock out / flame failure
- 30. Reset button
- 31. Pressure gauge
- 32 DHW mode indicator
- 33 Heating mode indicator
- 50. Adjustable by-pass
- 51. connecting bracket
- 52. 45° elbow including ventur
- 53. Expansion vessel (not visible)
- 54. Right hydraulic assy
- 55. Left hydraulic assy

FUNCTIONING



Switching on

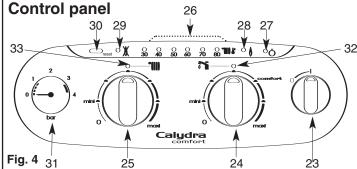
- 1) Check that the gas service tap is opened at the gasmeter and main power is on.
- 2) Check that pressure in central heating system is above 0.7 bar and below 1.5 bar with the pressure gauge **31**.
- 3) Open the gas tap 36.
- 4) The boiler is now ready to use.
- 5) Turn main switch 23 to position I . The green "power on" indicator 27 $\overset{\bullet}{\cup}$ will light.

Hot Water

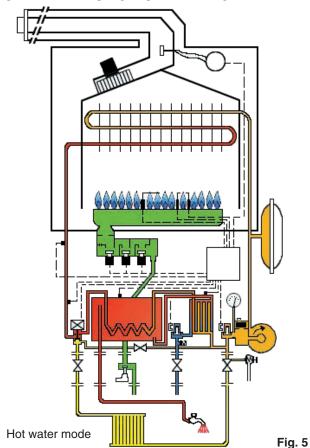
- 1) Turn the DHW temperature control knob clockwise **24**. The DHW indicator will light **32**.
- 2) Turn on a hot water tap, the orange "burner on" indicator will light 28 and the water will become hot..

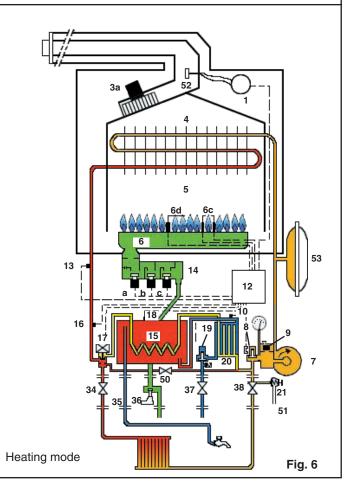
Heating

- 1)Turn the CH thermostat control knob clockwise **25** The CH indicator will light **33**.
- 2) If the room thermostat (if fitted), the boiler temperature control and the clock (if fitted) are all calling for heat, the orange "burner on" indicator will light and the heating will be on.



CALYDRA FUNCTIONAL DIAGRAM





When there is a need for hot water while the heating is on, it is only necessary to turn on a hot tap. The heating will be interrupted momentarily while the hot water is being delivered. The boiler will switch back automatically to heating when the tap is turned off.

To Turn Boiler Off Completely

- 1) Turn the main switch 23 to the off position O.
- 2) Turn the gas tap 36 (fig.2) OFF.

Domestic Hot Water Mode

In order to supply hot water, the main switch 23 (fig. 4) must be in ON position I. This will be confirmed by the green indicator light \circlearrowleft 27 (fig. 4). Turn DHW temperature adjustment knob 24 clock wise to establish the green DHW indicator 32 (fig. 4).

The hot water temperature in the mini cylinder can be adjusted between 40 and 60°C using control knob **24** (fig 4).

When a tap or shower is turned on, the flow of mains water, above 2 litres per min., will activate the 3 way valve 17 (fig. 4) to move to the DHW position. The pump will now circulate primary water heated by the main heat exchanger through the secondary heat exchanger.

The first stage solenoid **a** (fig. 6) and safety solenoid **c** (fig. 6) 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 bulb \$ 28 (fig.4) will light and the second stage solenoid **b** (fig. 6) opens to allow the full gas rate. If a flame is not detected, after 8 seconds, the security solenoid closes and shuts off the gas. The red lockout indicator bulb X 29 (fig.4) will show. Over 2 I/min, the domestic hot water temperature is controlled by the hot water control thermistor 9 (fig.6) and the heating control thermistor 16 (fig.6), but dependant upon to the position of the DHW temperature adjustment knob 24 (fig.4). 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. (unless the mini cylinder thermistor is calling for heat, in which case the burner will remain on at a low rate and the pump will continue running until the mini cylinder thermistor is satisfied). The boiler will now stay in the hot water mode for 30 seconds to be ready for a subsequent draw off

Priority is given to a demand for hot water. This will interrupt the central heating for the duration of hot water delivery or recovery of the mini cylinder.

When the boiler has been in standby in Hot Water Mode for some time or when drawing DHW at flow rates of less than 2 l/min the temperature in the mini cylinder will eventually decrease and the TSS® control thermistor 18 (fig.6) will call for heat. Bringing the pump and burners to operate, until the cylinder thermistoris satisfied. this is quite normal.

Central Heating Mode

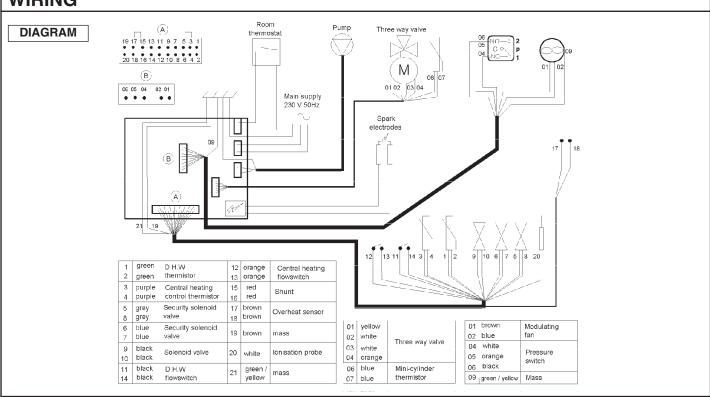
To be able to supply heating, the main switch 23 (fig.4) must be in I position. This will be confirmed by the green indicator light \circlearrowleft 27 (fig.4.) Turn the temperature control knob 25 clock wise to establish the green heating indicator 33 (fig.4).

When there is a demand for heating (either from the room thermostat or the clock) and the boiler temperature control is calling for heat. The pump starts allowing the ignition sequence to begin. The first stage solenoid a (fig.6) and safety solenoid c (fig.6) 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 bulb \$ 28 (fig.4) will light. After 45 seconds the second stage solenoid b (fig.6) opens to allow the full gas rate. If a flame is not detected, after 8 seconds, the security solenoid closes and shuts off the gas. The red lockout indicator bulb **X** 29 (fig.4) will show.

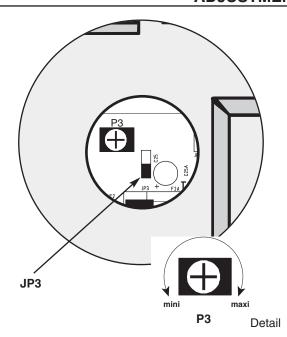
The central heating flow temperature is controlled by the central heating control thermistor **16** (fig.6). The boiler has been designed to minimise cycling and will not attempt to relight for at least 3 minutes after the boiler thermostat has been satisfied (it is possible to reduce the time to 30 s if necessary). When the room thermostat is satisfied the burner will switch off and the pump will remain running for a further 4 minutes before it to stops.

NB: It is possible to override the 3 minute delay by pressing the RESET button **30** (fig. 4)

WIRING



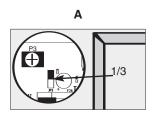
ADJUSTMENTS ON CONTROL PCB

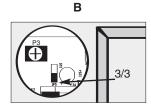


Adjustment on the PCB:

- P3: potentiometer TAC (Temporisation Anti Cycle) may now be adjusted between 30 seconds and 3 minutes (see detail) (factory set at 3 minutes).
- JP3: the spade connector allows the gas rate to be reduced to 1/3 performance by positionning spade across pins as shown A
 Full performance across pins as shown B.(factory set)

After completling adjustments replace rubber cover and refit outer casing





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 -255 Ω at 110°C

AIR PRESSURE SWITCH

The air flow rate is detected by a pressure differential created by a venturi located in the flue duct.

ON threshold $\Delta P > 130 \text{ Pa}$ OFF threshold $\Delta P < 100 \text{ Pa}$

ROUTINE SERVICING

To ensure continued efficient operation of the appliance, it is recommended that it is checked and serviced as necessary at regular 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) Regulations.

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 the safety controls
- Check combustion chamber insulation panels for damage.
- Clean the burner.
- Clean the heat exchanger.
- Check the burner manifold injectors.
- Clean gas and water filters.
- Check expansion vessel charge pres-
- Clean and check operation of safety valve.

Additional Procedures that may be necessary:

 Check burner pressure and gas flow rates.

- To ensure continued efficient operation of Check that the fan blades are clean.
 - Check, clean and replace components as necessary.
 - Carry out combustion test utilising the test points in the flue turret.

SUGGESTED SEQUENCE for SERVIC-ING

Before disconnecting or removing any parts, isolate the gas and electricity supplies. Ensure that the appliance is cool.

(for detail please see section on Parts Removal and Replacement)

Preliminary Checks

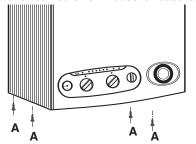
- Remove outer case
- Check the system pressure is at least 0.8 bar cold
- Check operation of solenoids.
- Check that the burner is extinguished fully when solenoids are closed in both DHW and C/H modes.
- Test ionisation functions and check that lockout occurs by turning off gas tap.

REMOVAL AND REPLACEMENT OF PARTS

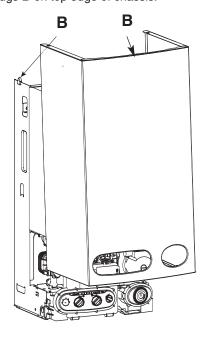
Before removing appliance case, isolate the gas and electrical supplies. Isolate boiler from the system and drain before removing any component in the waterways. Ensure that the appliance is cool.

1. Outer Case

Remove four screws in base of case and



lift free. When replacing, carefully locate on lugs B on top edge of chassis.



2. Combustion Chamber

Unscrew four self tapping screws securing the sealed chamber front panel and lift over top corner locating lugs. Unscrew four self tapping screws to release combustion chamber front plate and lift clear. Reassemble in reverse order.

3. Burner Manifold

Carry out steps 1 and 2 as above. Remove two screws securing the closure plate and the remaining four screws to release the manifold. Lift clear. Replace the manifold gasket. Reassemble in reverse order.

4. Ionisation Electrode

Carry out steps 1 and 2 as above. Loosen screws securing the closure plate and remove. Disconnect the lead from the main wiring loom. Remove screw securing electrode to burner. Thread wire through grommet and lift clear. Reassemble in reverse order.

5. Ignition Electrodes

Carry out steps 1 and 2 as above. remove the wiring cover undo the power lead plug open the electrical box 2 clips. Dicconnect leads from spark generator on PCB. Loosen screws securing the closure plate and remove. Remove grommet from base of sealed chamber. Remove screw securing electrode bracket and lift clear easing spade connectors through the grommet. Reassemble in reverse order, twisted together electrodes cable at least 10 times to avoid electrical interference.

6. Burner Assembly

Carry out steps 1,2, disconnect electrodes as mentionned in section 4 and 5. Remove two screws securing burner assembly to the back panel of the boiler. Lift right hand back corner first. Reassemble in reverse order.

7. Gas Solenoids

Disconnect colour coded leads. Remove six 12. Drain down screws. The solenoids are attached to their base plate. Lift clear taking care not to lose the three plungers and springs. Reassemble in reverse order replacing the cork gasket.

8. Fan Assembly

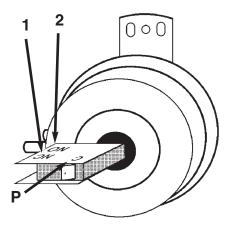
Remove outer case and sealed chamber front panel (See Steps 1 and 2). Disconnect spade connectors noting positions. Remove two screws securing the front of the fan assembly and loosen screw on flue outlet. Twist fan assembly anticlockwise to disengage from flue outlet and lift clear.

Re-assemble in the reverse order ensuring that the wiring is re-connected correctly and the screw on the flue outlet tightened.

9. Flue Hood

Carry out steps 1 and 2 as above. Remove fan assembly as in step 8. Remove the three screws securing the angled top of the hood to the chassis. Lift and remove taking care not to snag the pressure switch cables. Re-assemble in the reverse order ensuring that the hood is located behind the combustion chamber rear panel.

10. Pressure Switch



Remove outer case and sealed chamber front panel as in steps 1 and 2. Disconnect three pressure switch cables noting their positions.

1 = white cable connected to NC

2 = black cable connected to NO

P = orange cable connected to C

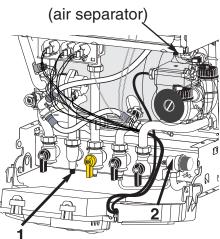
Remove screw securing the switch bracket to the chassis. Disconnect the sampling tubes again noting their positioning (+ and -).

Remove switch. Reassemble in reverse order.

11. Pressure Switch Venturi

Carry out steps 1, 2 and 8, as above. Disconnect the sampling tubes and remove the screw securing the venturi to the flue outlet. Remove venturi by the bottom of the 45° elbow. Reassemble in reverse order.

2 drain



points are located on the boiler.

- 1 = DHW circuit drain point
- 2 = Heating circuit drain point (Pressure releave valve)

13. Water filters (Heating and DHW)

The C/H filter ensures a seal between the return tail and the tap 5 Fig. 2 unscrew the pipe nut and the tap nut. Pull the tap toward you and remove the

The DHW filter is located in the DHW command 37 Fig. 2 on the right hydraulic assembly. Remove the clip and pull toward you the DHW command remove the plug and clean the filter. Reassemble in reverse order.

14. DHW Flow switch

Disconnect the electrical connections undo the securing clip and remove the microswitch reassemble in reverse order.

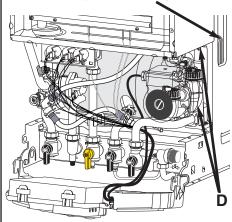
15. Pressure relief valve

Drain the boiler first, unscrew the safety valve head with a 24 mm spanner. Reassemble in reverse order.

16. 3-Way valve

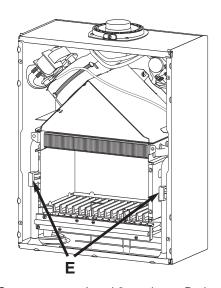
Drain boiler as in step 12. Remove the 2 clips on the 3 way valve hydraulic motor 17 (fig. 6). Pull up the motor .Turn anticlockwise the 3 way valve body, rise it up using a screw driver and remove it. Reassemble in reverse order.

17. Secondary heat exchanger 20



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.

18. Main heat exchanger



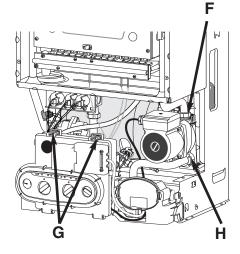
Carry out steps 1 and 2 as above. Drain boiler as in step 12. Remove the 2 clips E located on return and flow pipes and pull them downwards. Pull the main exchanger toward you to remove. Reassemble in reverse order

19. Expansion vessel

Remove the casing as step 1 and drain the boiler as step 12 above. Unscrew the connecting 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.

20. Pump

Drain the boiler as in step **12**. Open the electrical box cover removing the 2 screws. Remove the main lead connection. Open the electrical box, 2 clips **G**



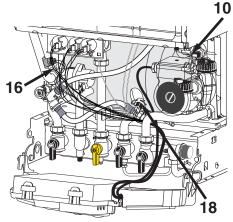
Remove the pump plug from the control board and earth plug from earth socket. Pivot the electrical box downwards. Unscrew the nut **F** of the flow pipe from the volute. Remove the clip **H** on the pump volute and pull pump toward you. Remove the back clip.

Reassemble in reverse order.

21. Thermistors

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

Reassemble in reverse order.



10 = DHW thermistor

16 = Heating thermistor

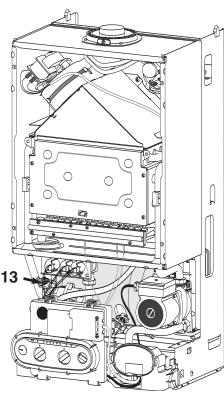
18 = TSS thermistor

22. Control board

Carry out step 1, open the electrical box cover as mentionned in step 5. unplug all cables from the PCB remove earth plug from earth socket undo the screw fixing the PCB. Hang out the control board. Reassemble in reverse order.

23. Safety thermostat

Remove the casing as step 1 unscrew four self tapping screws securing the sealed chamber front panel. Disconnect the 2 cables, pull out the sensor with the clip 13. Reassemble in reverse order.



24. R2i mini cylinder

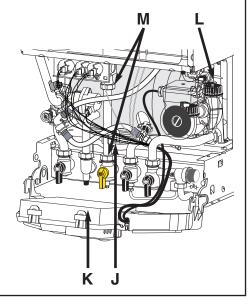
You have to remove the hydraulic bloc. Carry out steps 1 and 2 as above.

Drain the cylinder by removing the drain plug J. Remove the 3 way valve as in step 16. Remove all the connections of main wiring. Remove the lid of connections box K. Disconnect the pump from electronic circuit. Remove the manometer. Unscrew the nut L of the pipe between the pump and the primary heat exchanger. Remove the gas pipe by unscrewing the two nuts M.

Remove the gas block by removing the 4 screws. Unscrew the last nuts of connection from the pre-installation gig.

Remove the two fastening screws of the hydraulic block from the frame.

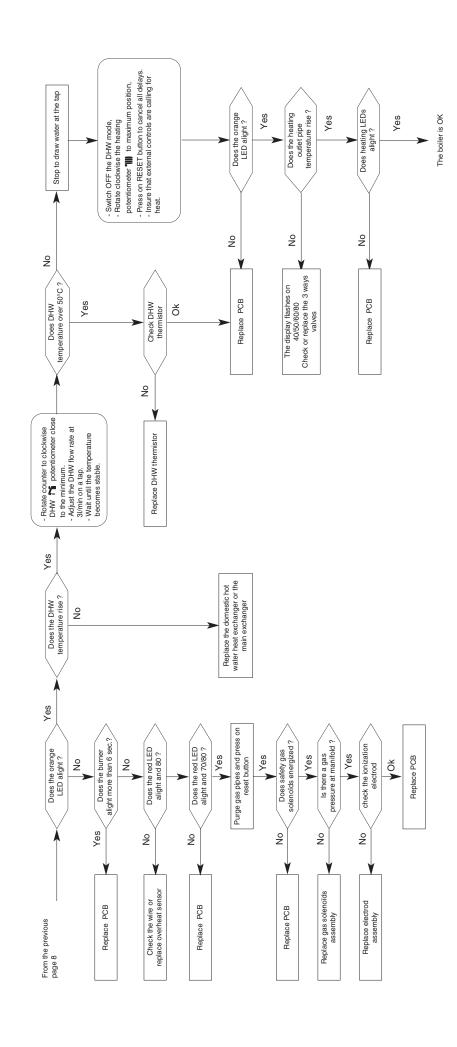
Pull all the hydraulic block toward you by inclining it slightly. Remove the two clips. Unscrew the two nuts fixing the cylinder. Reassemble in reverse order.



Yes Please go to Check contact of air pressure switch between P and 2 Does the spark generator energize Could you ear the spark generation? Replace PCB ð PLEASE CHECK CAREFULLY FOLLOWING POINTS BEFORE GOING THROUGH THE FAULT FINDING CHART -Minimal water pressure in the heating circuit (over 0.8 bar) -Check that the heating filter is cleaned. - Put all buttons on OFF position (turn them anticlockwise) Reset to make a new self test and start the boiler again -Minimal domestic hot water flow of 2 I/min at 0.5 bar ô Anytime the display can show an error code, Please try to solve the problem and then press The display flashes on 40/60/80 The fan stops after 45s - Check pressure probes or - Check Flue duct condition or Replace spark generator or ignition electrods assembly - Replace pressure switch - All isolating valves opened - Boiler air vented Yes pressure switch between P at between connectors P Check if there is voltage -Electric mains -Gas pressure Check contact of air Does the fan run? Check heating flow Check the heating Check if there is voltage at the fan ŏ ŏ oN ➤ 2 switch and 1 and 1 means a group of actions **≥** Yes means a test or a choice Ž, 2 ۶ ک Yes Replace heating flow switch, or Check the plates exchanger (Scaled) The display flashes on 50/70/80 or 50/60. Replace the heating thermistor The display flashes on 60/70/80. Switch the Domestic Hot water Draw of Domestic Hot Water with a flow of 3 l/min, Replace the PCB or the wiring Replace the air pressure switch. means an action The display flashes on 40/60/70. Does the pump run? Does the display Flashe? mode on and turn DHW on Replace the fan å ð 9 Yes Please refer to the error list and solve the problem Does the red LED ٩ alight? ð ž Press on reset button to make a new self test and reset Yes Check voltage in the pump electrical box Replace the PCB Yes Check the DHW flow switch Check heating flow switch Check that the pump spins free Replace pump ð ð ð ð ð Put the main switch on 1 Does the green LED alight? ð ô ô ž connection - Check internal fuses - Check main switch on PCB ž The display flashes on 50. Replace the heating flow switch Release pump rotor Check mains inlet Replace the DHW flow switch S Replace the PCB

FAULT FINDING CHART Part 1

FAULT FINDING CHART Part 2



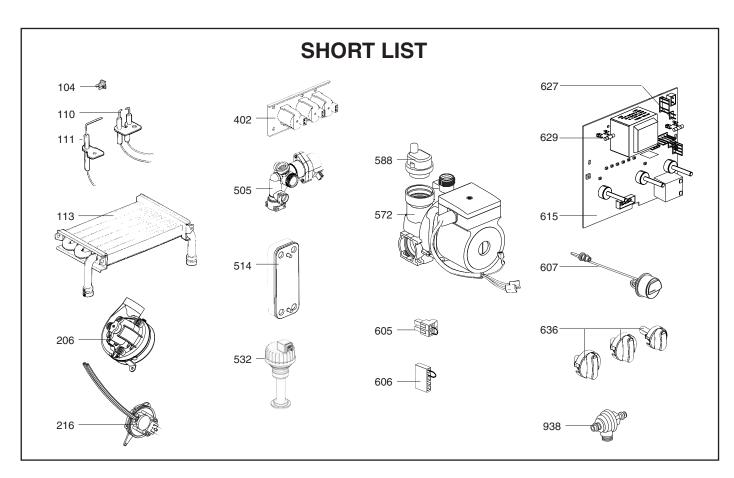
INCORRECT FUNCTION

Incorrects functions is signalled by leds (rep 26) display flashing correspond with chart below.

CODE			FAULT INFORMATION	1						
30	40	50	60	70	80					
0	0	0	0	0	•	Overheating safety feature				
0	0	0	0		0	Overheating defect without locking				
0	0	0	0			Misfiring safety feature				
0	0	0		0	0	Fire detection without burner working				
0	0	0		0	•	Besides freezing pump	0			
0	0	0			0	Besides freezing burner	r			
0	0	0				Lack of water circulation.				
0	0		0	0	0	Primary water circulation defect				
0	0		0	0		Thermistor sanitary open				
0	0		0		0	Thermistor sanitary bypassed.				
0	0		0		•	Thermistor inlet heating open				
0	0			0	0	Thermistor inlet heating bypassed				
0		0		0		Extractor on and pressure regulator at rest				
0		0			0	Extractor off and pressure regulator at rest				
0			0	0	•	Thermistor cylinder open				
0	•		0		0	Thermistor cylinder bypassed				
0	•	•	•	0	•	Distribution valve stuck on heating				

O = LED off

= LED blinking



						80/100/ 10 100/ 10 10 100/ 10 10 100/ 10 10 100/ 10 10 100/ 10 10 100/ 10 100	
Key	N° Description	G.C	N° Manf. Pt.	N° Typ	e (s		Manf. date
	(FF	FF	from to
104	OVERHEAT THERMOSTAT 100°C	277783	1010572		•	•	
110	IGNITION ELECTRODE	277788	1002801		•	•	
111	IONIZATION ELECTRODE	277789	1002802		•	•	
113	HEAT EXCHANGER	277790	1010017		•		
	HEAT EXCHANGER	E00606	1011136			•	
206	FAN ASSY		1304720		•	•	
216	AIR PRESSURE SWITCH 24KW		1306697		•		
	AIR PRESSURE SWITCH 28KW		1307335			•	
402	SOLENOID VALVES KIT	E23494	81836	NAT	•	•	
505	THREE-WAY VALVE	E23510	81839		•	•	
514	WATER / WATER HEAT EXCHANGER		1302409		•	•	
532	WATER THROTTLE	277846	81471		•	•	
588	AIR SEPARATOR HEAD ASSEMBLY		1304608		•	•	
572	PUMP + AIR SEPARATOR 15/50		1301964		•	•	
	PUMP + AIR SEPARATOR 15/60		1303461		•	•	
605	CONNECTOR		1302101		•	•	
606	CONNECTOR		1303697		•	•	
615	PRINTED CIRCUIT BOARD		1307627		•	•	
627	FUSE 250V 2A - TEMPORIZED	277883	1003456		•	•	
629	FUSE 250V 1.25A - TEMPORIZED	277884	1003635		•	•	
607	PRESSURE GAUGE		1303159		•	•	
636	KNOBS SET		81979		•	•	
938	PRESSURE RELIEF VALVE		1020933		•	•	

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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