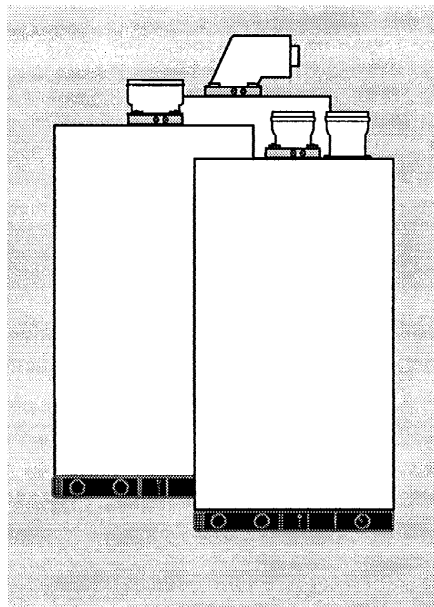


Britony



System plus 40

System plus 60

SYSTEM PLUS BOILER

Heating boiler compatible
with indirect cylinder

Faned Flue system

Installation and Operating instructions

Chaffoteaux
et Maury



These instructions are suitable for the following boilers :

BRITONY System plus 40

BRITONY System plus 60

CUSTOMER CARE

Chaffoteaux et Maury Ltd., as a leading manufacturer of domestic and commercial water heating appliances, is committed to providing high quality products and a high quality after sales service. If it is necessary to contact an engineer, then telephone your local Chaffoteaux Service Centre. The number can be obtained from the leaflet enclosed in the customer care pack with your boiler or by telephoning the Chaffoteaux Customer Services Department at Telford.

Advice on installation or servicing can also be obtained by contacting the Chaffoteaux Customer Services Department at Telford.

CUSTOMER SERVICES DEPARTMENT

Tel: 01952 222288

Fax: 01952 260915

GUARANTEE

The manufacturer's guarantee is for 12 months from the date of purchase. The guarantee is voidable if the appliance is not installed in accordance with the recommendations made herein or in a manner not approved by the manufacturer. To assist us in providing you with an efficient after sales service, please return the guarantee registration card enclosed with the boiler without delay.

STATUTORY REQUIREMENTS

The installation of this appliance must be carried out by a CORGI Registered person or other competent person and in accordance with the requirements of the Gas Safety (Installation and Use) Regulations.

In addition, the installation must also comply with the current byelaws of Local Water Undertakings, Building Regulations, IEE Wiring Regulations, Local Authority Building Standards (Scotland) Regulations and the Safety Document 635 The Electricity at work Regulation.

It should also be carried out in accordance with current editions of the following British Standards Codes of practice: BS 6891, BS 5440 parts 1 and 2, BS 5449 part 1, BS 7593, BS 6798, BS 5546, BS 4814, BS 7074 part 1 and 2, BS 7671 and BG DM2.

If there is a possibility of the incoming mains water pressure exceeding 10 bar then a suitable pressure limiting valve must be fitted.

Precautions: During servicing, keep the dust generation to a minimum and avoid inhaling any dust and contact with the skin and eyes. Normal handling and use will not present any discomfort, although some people with a history of skin complaints may be susceptible to irritation. When disposing of the lining, ensure that it is securely wrapped and wash hands after contact.

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1 - Introduction

The BRITONY SYSTEM PLUS is a fully automatic, wall mounted, low water content boiler. It is a room sealed, fan assisted, balanced flued appliance . The appliance includes a diverter valve and so can provide central heating and hot water flow for an indirect cylinder.

It has electronic ignition and is suitable for use with all modern electrical control systems. The boiler is designed for sealed systems only and a circulating pump, expansion vessel together with a pressure gauge and safety valve are included within the boiler.

The standard horizontal flue kit is suitable for lengths 300 mm minimum to 680 mm maximum and includes an elbow adapter that can be rotated through 360°. The horizontal flue can be extended (refer to Flue Installation Instructions), 45° and 90° flue bends are also available as accessories.

The BRITONY SYSTEM PLUS is also suitable for concentric vertical and twin pipe flueing. Adapters and accessories are available.

The boiler is packed in three cartons:

1. the boiler,
2. the flue assembly and the pre installation kit,
3. additional accessories kit.

2 - Description

Location of components

1. Air pressure switch
2. Steel chassis complete with expansion vessel
3. Main heat exchanger
4. Combustion chamber
5. Multi- gas burner assembly comprising ignition and ionisation electrodes
6. Automatic air separator and automatic vent
7. Heating circuit flow switch
8. Pump
9. Electrical box
11. Overheat thermostat
12. Gas valve assembly
13. Sealed chamber
14. Flue hood with fan
16. Primary circuit control thermistor
17. Three way valve
18. CH Flow isolating valve
19. Three position Selector switch
20. User's instruction panel.
21. Heating flow temperature adjustment
22. Green indicator - Power ON
23. Orange indicator - Burner ON
24. Red indicator - Lock out / flame failure

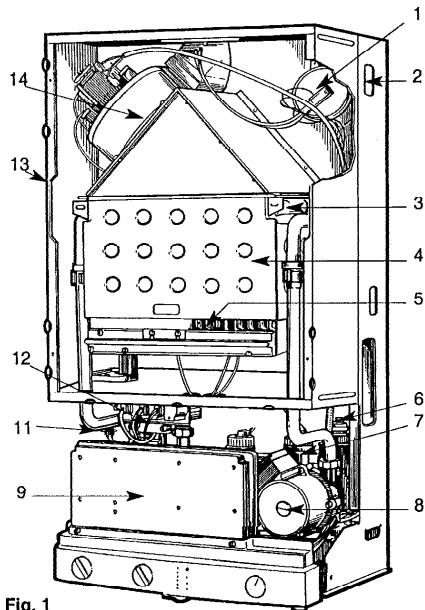


Fig. 1

Description (continued)

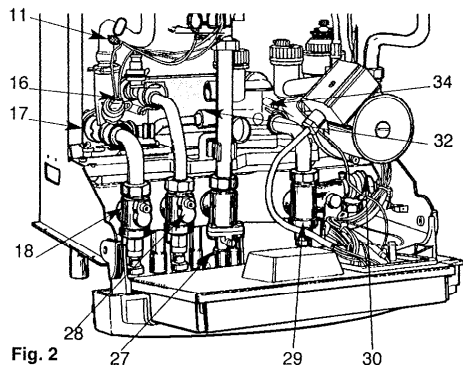


Fig. 2

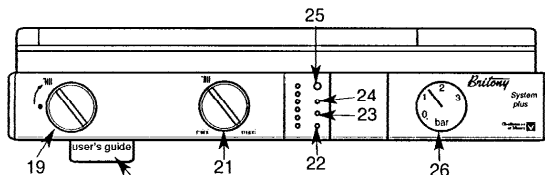
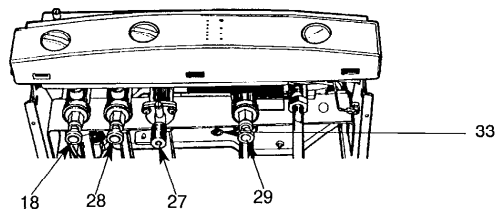


Fig. 3



- 25 Reset button
- 26 Pressure gauge
- 27 Gas service tap
- 28 Hot water flow isolating valve
- 29 CH Return isolating valve

- 30 Pressure relief valve
- 32 By pass
- 33 By pass adjustment screw
- 34 Location of central heating filter

3 - Technical data

BRITONY SYSTEM PLUS type	40	60
Appliance category.....	Cat II _{2H 3+}	Cat II _{2H 3+}
Heat input C/H & DHW		
Maximum in kW.....	13.41	20.22
Maximum in Btu/h.....	45764	69005
Heat output C/H & DHW		
Maximum in kW.....	12	18
Maximum in Btu/h.....	40952	61428
C/H circuit pressures		
Min operating in bar	0.7	0.7
in lb/in ²	10	10
Max operating in bar	2.5	2.5
in lb/in ²	36.3	36.3

Compartment ventilation is not required

BRITONY SYSTEM PLUS type	40	60
Natural gas G20		
Gas rate		
Maximum in m ³ /h.....	1.42	2.14
Maximum in ft ³ /h.....	50	76
Inlet pressure		
Nominal in mbar.....	20	20
Nominal in in wg.....	8	8
Burner pressure		
Nominal in mbar.....	2.9	6.7
Nominal in in wg.....	1.2	2.7
Burner injector diameter		
Natural gas G20 in mm.....	1.18	1.23

PROPANE L.P.G. G31

Gas rate		
Maximum in kg/h.....	1.03	1.55
Maximum in ft ³ /h.....	2.27	3.42
Inlet pressure		
Nominal in mbar.....	37	37
Nominal in in wg.....	14.8	14.8
Burner pressure		
Nominal in mbar.....	9.2	21.0
Nominal in in wg.....	3.7	8.4

Technical data (continued)

BRITONY SYSTEM PLUS type 40 60

BUTANE L.P.G. G30

Gas rate

Maximum in kg/h	1.05	1.58
Maximum in Lbs/h	2.32	3.48

Inlet pressure

Nominal in mbar	28	28
Nominal in in wg	11.2	11.2

Burner pressure

Nominal in mbar		
Nominal in in wg		

Burner injector diameter

LPG G30 and G31 in mm ..	0.70	0.70
--------------------------	------	------

Compartment ventilation

n o t r e q u i r e d

BRITONY SYSTEM PLUS type 40 60

Safety discharge

in bar	3	3
in lb/in ²	43.5	43.5

Expansion vessel

Pre-charge pressure in bar .	0.7	0.7
Pre-charge pressure in lb/in ²	9.4	9.4
Net capacity at 3 bar in liter	5.44	5.44

Adjustable by-pass

Minimum flow rate in l/h ...	100	100
Minimum flow rate in gal/min	0.36	0.36
Maximum flow rate in l/h ...	700	700
Maximum flow rate in gal/min	2.56	2.56

Electrical characteristics

Supply	230 v	50 Hz
Consumption	150 w	150 w
Protection	IP 44	IP 44
Fuse n°1	2 A	2 A
Fuse n°2	1.25 A	1.25 A
External controls	24 v	24 v

4 - Dimensions

Weights

With packaging :

- BRITONY SYSTEM PLUS 40 :	43.2 kg
- BRITONY SYSTEM PLUS 60 :	43.2 kg

Without packaging :

- BRITONY SYSTEM PLUS 40 :	41.2 kg
- BRITONY SYSTEM PLUS 60 :	41.2 kg

Lift weight :

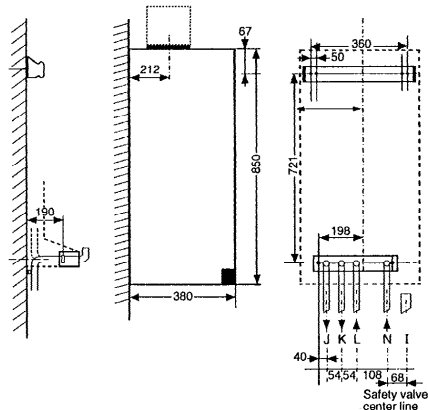
- BRITONY SYSTEM PLUS 40 :	35.2 kg
- BRITONY SYSTEM PLUS 60 :	35.2 kg

Tails diameter

I	Safety valve outlet	Ø 15 mm
J	Heating flow	Ø 22 mm
K	H.W. flow	Ø 22 mm
L	Gas supply	Ø 22 mm
N	Heating return	Ø 22 mm

Outer case dimensions :

- Width :	440 (minimum space required 450)
- Height :	850
- Depth :	380



All dimensions in mm

Fig. 4

Dimensions (continued)

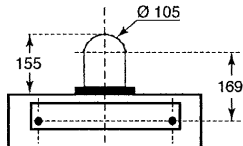
Minimum clearances :

- Both sides 5 mm
- Above casing 170 mm
- Below casing 200 mm
- Front (for servicing) 500 mm
- Front (in operation) 5 mm

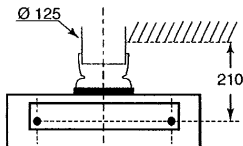
The boiler is suitable for the 3 flue types :

- type C 12 or C 42
- type C 22
- type C 32 xx or C 32 xy

TYPE C12 or C42



TYPE C32 xx



TYPE C32 xy

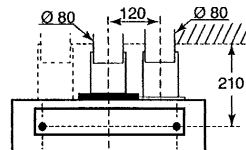


Fig. 5 Dimensions in mm



5 - Operation

Domestic Hot Water Mode

To be able to supply hot water, the selector switch (19 fig. 6) must be in either in  or  position. This will be confirmed by the green indicator light  (22 fig. 6).

When the cylinder thermostat is calling for heat, it switches the 3 way valve (17 fig. 7) to hot water position. Then the hot water from the primary circuit is diverted through the cylinder coil to heat DHW.

The first stage solenoid (12a fig. 7) and safety solenoid (12c fig. 7) 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  (23 fig. 6) will light and the second stage solenoid (12b fig. 7) 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  (24 fig. 6) will light.

The hot water flow temperature is controlled by the primary circuit control thermistor (16 fig. 7).

When the cylinder thermostat is satisfied, the burner is extinguished and the pump stops.

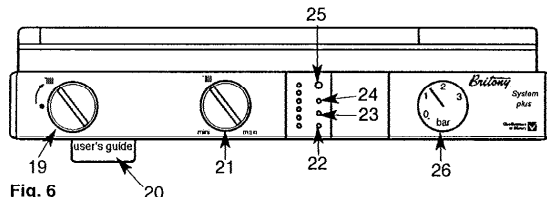


Fig. 6

The boiler will now stay in the hot water mode for three minutes.

Priority will be given to a demand for reheating the cylinder.

Central Heating Mode

To be able to supply central heating, the selector switch (19 fig. 6) must be in  position. This will be confirmed by the green indicator light  (22 fig. 6)

Operation (continued)

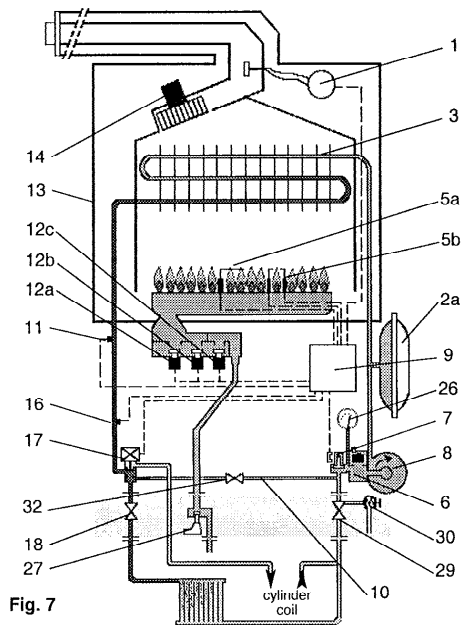


Fig. 7

When there is a demand for heating (either from the room thermostat or the external programmer) and the boiler temperature control is calling for heat. The pump starts and at a flow rate of 4 ltr/min the central heating flow switch operates allowing the ignition sequence to begin. The first stage solenoid (12a fig. 7) and safety solenoid (12c fig. 7) 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 (23 fig. 6) will light. After 45 seconds the second stage solenoid (12b fig. 7) 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 (24 fig. 6) will light.

The central heating flow temperature is controlled by the central heating control thermistor (16 fig. 7). 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 (this «TAC delay» can be set to 30 seconds if required, see maintenance and service guide). When the room thermostat is satisfied the burner will switch off and the pump will remain running for a further 3 minutes.

NB

It is possible to override the TAC delay by pressing the RESET button (25 fig. 6).

6 - Installation requirements

Location

The boiler can be installed on any suitable internal wall. Provision must be made to allow the correct routing of the flue and siting of the terminal to allow the safe and efficient removal of the flue products. The appliance may be installed in any room, although reference must be made to the IEE regulations if it contains a bath or shower. A compartment or cupboard may be used provided that it has been purpose-built or modified for the purpose. It is not necessary to provide permanent ventilation for cooling purposes. Detailed recommendations are given in BS 5440 pt 2. If it is proposed that it is installed in a timber framed building then reference must be made to British Gas Document DM2, or advice sought from CORGI.

Flue

The boiler must be installed so that the flue terminal is exposed to the free passage of external air at all times. It must not be allowed to discharge into another room or space such as an outhouse or closed lean-to. The minimum acceptable clearances are shown below:

- | | |
|--|--------|
| - A Directly below an opening, window, etc | 300 mm |
| - B Below gutters soils pipes or drain pipes | 75 mm |
| - C Below eaves | 200mm |
| - D Below balconies or car port roof | 200 mm |
| - E From a vertical drain pipe or soil pipe | 75 mm |

- | | |
|---|---------|
| - F From an internal or external corner | 300 mm |
| - G Above ground roof or balcony level | 300 mm |
| - H From a surface facing the terminal | 600 mm |
| - I From another terminal facing the terminal | 600 mm |
| - J From an opening into the dwelling when under a car port | 1200 mm |
| - K Vertically from a terminal on the same wall | 1500 mm |
| - L Horizontally from a terminal on the same wall | 300 mm |
| - M fixed by the flat roof ubbink rolux 4GM flue terminal | |
| - N fixed by a pitched roof ubbink rolux 4GM flue terminal | |

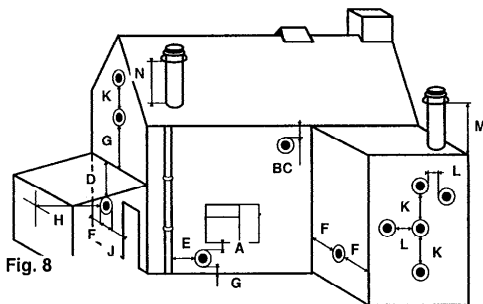


Fig. 8

Installation requirements (continued)

It may be necessary to protect the terminal with a guard if it is accessible and could be damaged. Reference should be made to the Building Regulations for guidance. Suitable guards may be obtained from the following manufacturer:

Quinnel Barret & Quinnel Wireworks
Old Kent Road
London SE15 1NL
Tel: 0171 639 1357

Ventilation

The room in which the boiler is installed does not require specific ventilation. **IF IT IS INSTALLED IN A CUPBOARD OR COMPARTMENT PERMANENT VENTILATION IS NOT REQUIRED FOR COOLING PURPOSES.** If vents are installed, they must communicate with the same room or be on the same wall to outside air.

Gas Supply

The gas installation and soundness testing must be in accordance with the requirements of BS 6891. The boiler requires a 22 mm supply. Ensure that the pipe size is adequate for the demand including other gas appliances on the same supply.

Electrical Supply

The appliance requires an earthed 230V - 50 Hz supply and must be in accordance with current I.E.E. It must also be possible to be able to completely isolate the appliance electrically. Connection should be via a 3 amp fused double-pole isolating switch with contact separation of at least 3 mm on both poles. Alternatively, a fused 3 Amp. 3 pin plug and unswitched socket may be used, provided it is not used in a room containing a bath or shower. It should only supply the appliance.

7 - Installing the boiler

Please check that you are familiar with the installation requirements before commencing work.(section 6)

Installation

The installation kit included with the flue components comprise following items :

- Hanging bracket
- A paper template (showing the dimensions of the boiler with 5 mm side clearances, fitting instructions and commissioning instructions)
- Connection tails
- Screws and wall plugs
- Conncoction washers
- Pre-piping jig
- Installation manual

Also required is the additional accessories kit n° 1014574 contain 15 to 22 mm bush and tail.

Method of positioning the boiler on the wall.

The paper template can be used to ensure the correct positioning of kitchen cabinets etc. It also details the commissioning instructions.

The paper template has to be fixed to the wall and used to fix the position of the hanging bracket, the centre for the flue hole and, if required, the fixings for the pre-piping jig.

Drill and plug the wall and secure the hanging bracket using the screws provided (refer to the paper template drawings). Remove the boiler from its packaging as shown in fig. 13 and remove the outer case as shown in fig.14. Place the boiler on the wall on the hanging bracket after removing the pre-installation jig.

If required, there is space for all piping to pass behind the

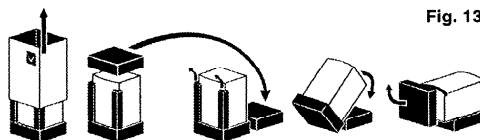


Fig. 13

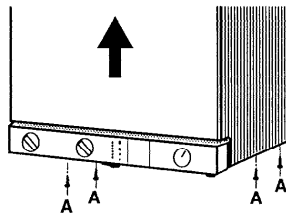


Fig. 14



Installing the boiler (continued)

boiler. Using fig. 15 for reference, connect the gas and water pipes to the valves located at the base of the appliance using the tails provided. There is a 190 mm space between the valves and the wall to make these connections.

Provision must be made to fill and recharge the system

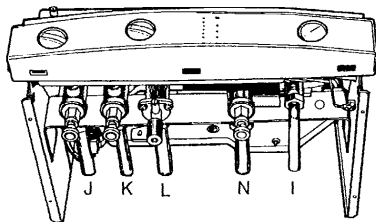


Fig. 15

I	Safety valve outlet	Ø 15 mm
J	Heating flow	Ø 22 mm
K	H.W. flow	Ø 22 mm
L	Gas supply	Ø 22 mm
N	Heating return	Ø 22 mm

pressure. This can be achieved using a filling loop or other methods approved by the local water authority.

The pressure relief should terminate below the boiler over a tundish or 22 mm pipe (see Fig. 15) which should in turn discharge safely outside the premises. Care should be taken that it does not terminate over an entrance or window or where a discharge of heated water could endanger occupants or passers by.

The system should be carefully checked for leaks, as frequent refilling could cause premature system corrosion or unnecessary scaling of the heat exchanger.

Fitting the Horizontal Flue

The instructions for the elevated horizontal, vertical and biflux (twin pipe) flue options are included with the relevant adapter kits.

The standard flue supplied with the appliance is suitable for lengths from 300 mm minimum to 610 mm maximum. This means for rear flueing, the standard kit will accommodate a maximum wall thickness of 490 mm, and for side flueing a maximum wall thickness of 477 mm. This takes into account the minimum appliance side clearances of 5 mm.

If the fixing is a rear exit flue, the template provides the position of the centre for drilling the flue hole with a core drill. If the flue is a side exit installation then calculate the position of the hole with a slope of 5 mm / metre to the terminal.



Installing the boiler (continued)

Connecting the boiler to the system

- Hinge down the electrical box to gain access to the valves connections. Push in the tabs (P Fig 19) on either side of the boiler and pivot the box forward.
 - Remove the yellow caps from connecting pipes and connect the boiler to the taps using gaskets provided in the plastic bag.
- Rubber washer "R" for gas connection.

Provision must be made to reduce as much as possible the distance **A** from the cylinder coil return to the boiler and **B** should be greater than 200 mm to avoid gravity effects.

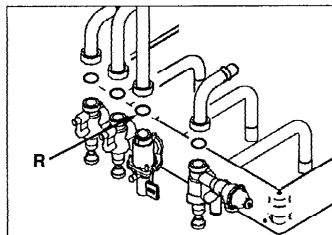


Fig 16

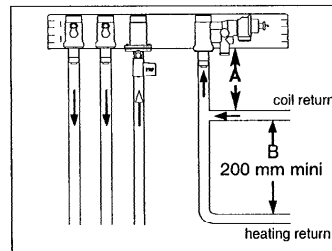


Fig 17

Installing the boiler (continued)

Making the Electrical Connections

Hinge down the electrical box to gain access to the electrical connections. Push in the tabs (P fig 19) on either side of the boiler and pivot the box forward.

Undo the two retaining screws (A fig 19), lift the cover and turn over, and remove cable clamp (see fig. 19a).

Connect the live and neutral wires to the multipin plug «D» (fig 20) of the PCB «E» leaving sufficient earth wire to connect to the earthing point. (B fig 21)

Note: The connections should be made so that should the lead be pulled from its anchorage, the current carrying wires become taut before the earth wire.

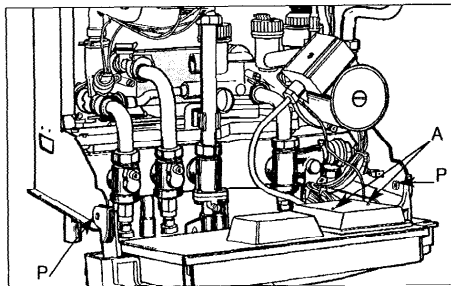


Fig. 19

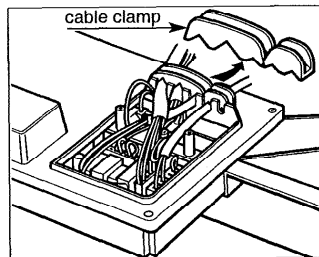


Fig. 19 a

Installing the boiler (continued)

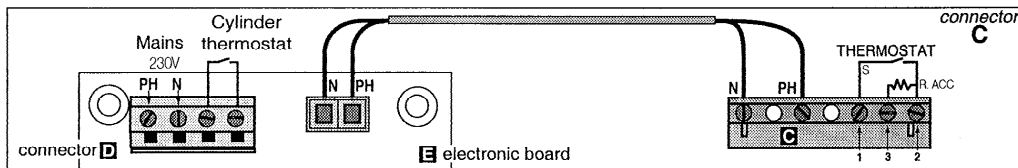


Fig. 20

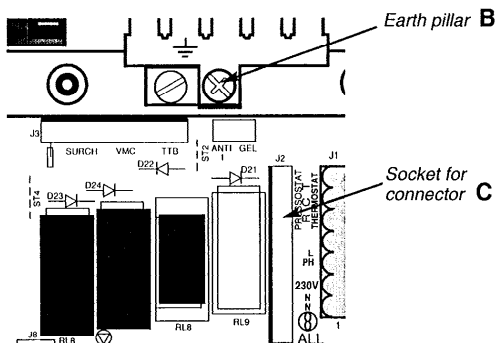


Fig. 21

If using a room thermostat or other external control, they can be connected in place of the link on the multipin plug «C» (fig 20)

Note: Use only controls designed for voltage free switching or 24V supply.

Connect multipin plug «C» onto into the socket on the power board. Connect multipin plug «D» to the interface PCB inside the cover (see fig. 20).

Secure the cables using the cable clamp and replace the cover. To prevent damage, the cables should then be routed through the cable support on the right hand side of the chassis.

8 - Commissioning and testing

Pre-commissioning

Ensure that the system has been adequately flushed.
Purge gas supply of air and test for soundness.
Carry out final electrical tests to ensure the correct polarity and earthing continuity.

DHW

Open the hot flow tap (28 fig. 22).
Check for water soundness.

Central Heating

Open flow and return valves on the boiler. (18 and 29 fig. 22)
Open the automatic air vent (6 fig. 23)
Fill system and vent radiators.
Set system pressure and remove filling loop.
Check for leaks.
Manually check pump is free to turn.
Switch on electrical supply.
Turn selector switch (19 fig. 23) to heating and hot water position "III" .
Allow pump to run for several minutes.
Isolate electrical supply.
Drain boiler and check water filter (34 fig. 2) for installation debris.
Replace filter and recharge system.

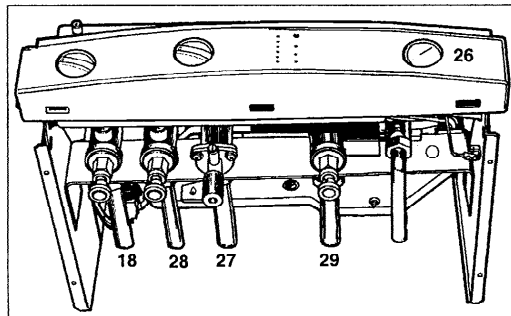


Fig. 22

Lighting the Boiler

Connect gas pressure gauge to test point (43 fig. 23).
Turn on the gas supply and boiler gas tap (27 fig. 22).
Ensure electrical supply is on.
Ensure all external controls are calling for heat.

Commissioning and testing (continued)

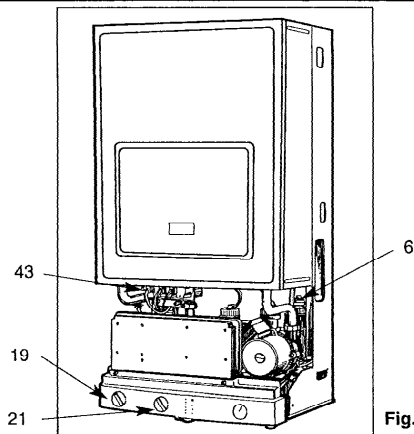


Fig. 23

Check the operation of the boiler controls and safety devices (see separate servicing leaflet for details).

Re-flush the system to remove any dissolved oils and fluxes.

Recharge system pressure and introduce any water treatment as required.

Post Commissioning

Ensure system pressure has been set correctly.

Set the by pass.

Set boiler thermostat and controls.

Set programmer to householder's requirements.

Set external controls.

Handing Over to the Householder

Demonstrate the lighting and operation of the boiler.

Demonstrate how to maintain the system pressure.

Explain the benefits of annual maintenance by a competent person.

Explain how to register guarantee.

Leave users instructions, installation manual and all other documentation with the householder.

Turn selector switch (19 fig. 23) to heating and hot water position .

Turn the boiler thermostat to maximum (21 fig. 23).

The boiler will light.

Allow the boiler to heat system.

Check that the inlet gas pressure (working pressure) while the boiler is operating. (refer to technical data).

9 - System guidance

The boiler is suitable for sealed systems only. The maximum working pressure for the appliance is 3 bar.

All fittings and pipework connected to the appliance should be of the same standard.

Flushing and Water Treatment

The performance of the appliance could be impaired by system debris or the effects of corrosion.

The system must be flushed thoroughly to remove metal filings, solder, machining oils and other fluxes and greases before connecting the boiler.

An appropriate flushing and descaling agent should be used, particularly if it is an existing system.

Refer to BS 7593 (1992) for guidance.

For more information on the use of corrosion inhibitors, flushing and descaling agents, advice can be sought from the manufacturers of water treatment products such as :

Betz Dearborn Ltd
Foundry Lane
Widnes
Cheshire
WA8 8UD
Tel: 0151 424 5351

Fernox Manufacturing
Britannica Works
Clavering
Essex
CB11 4QZ
Tel: 01799 550811

System Controls

The boiler is electrically controlled and is suitable for most modern electronic time and temperature controls. The addition of such external controls can be beneficial to the efficient operation of the system. The boiler connections for external controls are 230V and so only controls of 230V or that have voltage free contacts should be used.

System guidance (continued)

By pass and Pump

The boiler is fitted with a pre-adjusted by pass. Although adjustment is not normally necessary, the by pass can be reset by turning screw (D fig. 9) anticlockwise to open the by-pass using the chart below for guidance.

If used on a system with thermostatic radiator valves, the flow rate with the thermostatic valves closed should be adjusted to at least 100 l/hr. The chart below indicates the residual head of the pump available for the system.

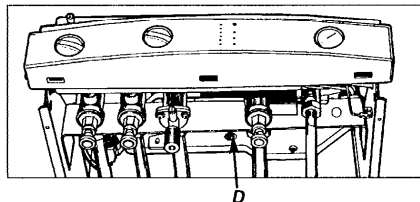


Fig. 9

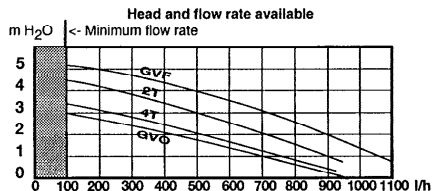


Fig. 10



System guidance (continued)

Expansion Vessel

The expansion vessel is pre-charged to 0.7 bar (10 lb/in²). The vessel is suitable for systems up to 145 litres capacity. For systems of greater capacity an additional expansion vessel will be required. Refer to the chart below and BS 7074 pt 1 or BS 5449.

Filling Point

Provision must be made to be able to charge the system on commissioning and to make up any subsequent pressure loss. The method of connection must utilise approved equipment and must comply with the water regulations. A filling loop can be so installed as to be hidden beneath the boiler.

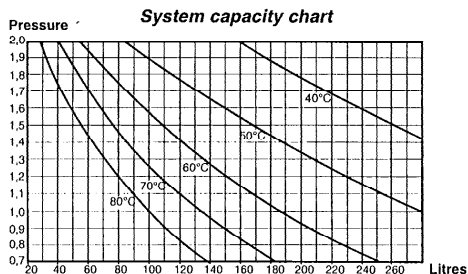


Fig. 11



9 - User's instructions

Control panel

19. Three position Selector switch

● = Switched OFF

☀ = Hot water only

☀ + III = Hot water + Central heating

20. User's instruction panel.

21. III Heating flow temperature adjustment

22. ○ Green indicator - Power ON

23. ☀ Orange indicator - Burner ON

24. ★ Red indicator - Lock out / flame failure

25 "RESET" Reset button

26. ⌚ Pressure gauge

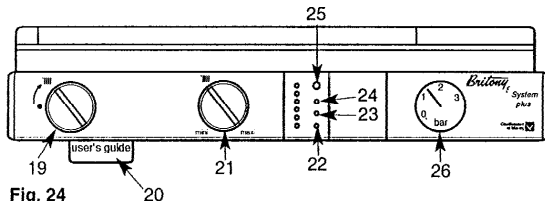


Fig. 24

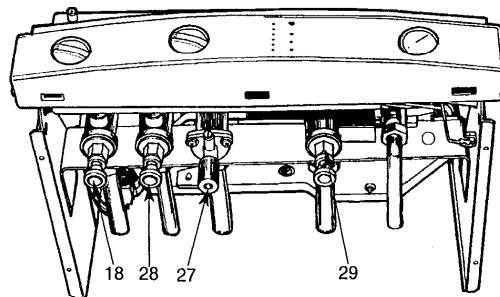


Fig. 25

Isolating Taps

18. CH Flow isolating valve

27. Gas service tap

28. Hot water flow isolating valve

29. CH Return isolating valve

User's instructions (continued)

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 2.5 bar with the pressure gauge (26).
- 3) Open the gas tap (27) by turning from right to left. 
- 4) The boiler is now ready to use.

Hot Water

- 1) Turn selector switch (19) to position . The green "power on" indicator  will light.
- 2) The orange "burner on" indicator  will light and the cylinder will be heated.

Heating and Hot Water

- 1) Turn selector switch (19) to position  . The green "power on" indicator  will light.
- 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.

When the heating is on, it will be interrupted while the cylinder is reheated. The boiler will switch back automatically to heating when the cylinder is hot. This is normal.

Note: If the boiler has been turned off for some time the first attempt to light it may result in a lockout . If this happens press the reset button (25) and the boiler will light.

To Turn Boiler Off Completely

- 1) Turn the selector switch (19) to the off position .
- 2) Turn the gas tap (27) from left to right "STOP".

Chaffoteaux et 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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