

INSTALLATION

Olympic 20/35F and 38/50F Wall mounted gas boilers

G.C. Appliance No's. Olympic 20/35F 41 789 65 Olympic 38/50F 41 789 66
For use with Natural Gas only Leave these instructions adjacent to the gas meter)
Read these instructions thoroughly before installing the boiler.

General

These fanned draught balanced flue wall mounted boilers are for use on natural gas only, and are suitable for rear or side exit flue.

The Olympic 38/50F is range rated from 11.14 to 14.65 kW (38 000 to 50 000 Btu/h).

The Olympic 20/35F is range rated from 5.86 to 10.26 kW (20 000 to 35 000 Btu/h).

The boiler must be installed in accordance with:

The Gas Safety Regulations 1972.

The Gas Safety (Installation and Use) Regulations 1984.

Local Building Regulations.

By-Laws of the local Water Undertaking.

I.E.E. Wiring Regulations.

Detailed recommendations are stated in the following British Standard Codes of Practice: CP331:3:1974, BS5376:2:1976, BS5546:1979, BS5440:1:1978, BS5440:2:1976 and BS5449:1:1977.

Note: Gas Safety Regulations: It is the law that all gas appliances are installed by competent persons, in accordance with the above regulations. Failure to install appliances correctly could lead to prosecution. It is in your own interest, and that of safety to ensure that the law is complied with.

Delivery

The unit is delivered in two packages (1) the cased boiler and (2) the flue terminal assembly. The same flue terminal assembly is used for both sizes of boiler. If required, extended flue tubes 1500 mm (59 in) long are available. A plug-in programmer kit is also available to fit inside the boiler casing. This programmer simplifies wiring and is suitable for use with all external control systems shown in this instruction.

Gas supply

The 38/50F requires 1.84 m³/h (66 ft³/h) of natural gas, the 20/35F requires 1.28 m³/h (46 ft³/h). The meter and supply pipes must be capable of delivering this quantity of gas in addition to the demand from any other appliances in the house.

The complete installation must be tested for gas soundness and purged as described in CP331:3.

Electricity supply

240V 50Hz via a fused double pole switch with a contact separation of at least 3 mm in both poles or preferably a fused 3-pin plug and shuttered outlet socket, adjacent to the boiler.

Use the supply at 3 amp.

Mains cable: 0.75 mm² (24 x 0.20 mm).

The external wiring between the appliance and the electrical supply shall comply with the latest IEE Wiring Regulations, and any local regulations which apply.

The appliance must be earthed.

In the event of an electrical fault after installation of the appliance, preliminary electrical systems checks can be carried out as described in the British Gas multimeter instruction book.

Air supply

1. The room in which the boiler is installed does not require a purpose provided air vent.

2. If the boiler is installed in a cupboard or compartment, permanent air vents are required in the cupboard or compartment, one at high level and one at low level, either direct to the outside air or to a room. Both high and low level air vents must communicate with the same room or must both be on the same wall to outside air. Both the high level and low level vents must have a free area of 180 cm² (28 in²) for the 38/50F and 123 cm² (19 in²) for the 20/35F boiler. The free area of each vent may be halved if the ventilation is provided directly from outside.

Flue system

The boiler must be installed so that the terminal is exposed to the external air. It is important that the position of the terminal allows the free passage of air across it at all times.

The minimum acceptable spacings from the terminal to obstructions, corners and ventilation openings are specified in the chart below.

TERMINAL POSITION	MINIMUM SPACING
Directly below an openable window, air vent or any other ventilation opening	300 mm (12 in)
Below gutters, soil pipes or drain pipes	75 mm (3 in)*
Below eaves or a balcony	200 mm (8 in)*
Above adjacent ground or balcony level	300 mm (12 in)†
From vertical soil pipes or drain pipes	75 mm (3 in)
From internal or external corners	25 mm (1 in)
From a surface facing the terminal	600 mm (24 in)
From a terminal facing the terminal	1200 mm (48 in)
Vertically from a terminal on the same wall	1500 mm (60 in)
Horizontally from a terminal on the same wall	300 mm (12 in)

* If the terminal is fitted within 850 mm (34 in) of a plastic or painted gutter/pipe or 450 mm (18 in) of painted eaves, an aluminium shield of at least 750 mm (30 in) in length should be fitted to the underside of the gutter/pipe or painted surface.

† If the terminal is fitted less than 2 m (6.6 ft) above a balcony, above ground or above a flat roof to which people have access then a suitable terminal guard must be provided.

A type K2 protective guard is available from Tower Flue Components Ltd at:

Vale Rise
Tonbridge
Kent

TN9 1TB

Tel: 0732 351555

The flue tube assembly and terminal of the boiler must not be closer than 50 mm (2 in) to combustible material. When using side exit flue the flue tubes must be protected if they are accessible to the User. Detailed recommendations on protection of combustible materials and exposed flue protection are given in BS5440:1:1978, sub-clause 20-1.

Installation

The boiler must be mounted on a flat wall which is sufficiently robust to take the weight of the boiler. If the wall is of combustible material it must be protected by a sheet of non-combustible material of thickness not less than 25 mm (1 in).

Note: If the boiler is to be fitted into a house of timber frame construction, advice is available from your trade organisation or local Gas Region.

The boiler is designed for use with an open vented central heating system and/or indirect domestic hot water system. IT MUST NOT BE CONNECTED TO A DIRECT CYLINDER.

The boiler may be installed in any room, although particular attention is drawn to the requirements of the latest I.E.E. Wiring Regulations and, in Scotland, the electrical provisions of the building regulations applicable in Scotland, with respect to the installation of the boiler in a room containing a bath or a shower.

Where the installation of the boiler will be in an unusual position, special procedures may be necessary and BS5376:2 and BS5546 give detailed guidance on this aspect.

A cupboard or compartment used to enclose the boiler must be designed and constructed specifically for this purpose. An existing cupboard or compartment may be used provided that it is modified for the purpose.

Details of essential features of cupboard/compartment design including airing cupboard installations are given in BS5376:2 and BS5546.

Boiler dimensions, minimum clearances and connection details are shown in frames 1, 12 and 18.

Fit one or more drain cocks to enable the water system to be fully drained.

Note: THE PUMP MUST BE WIRED BACK TO THE BOILER, see wiring diagrams, frames 46 and 47. For low head system see frame 45.

Data

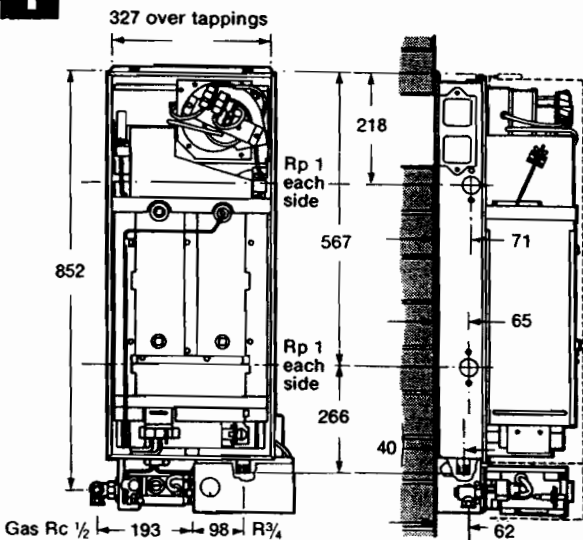
Heat inputs and outputs together with burner setting pressures are given in frame 42.

Boiler	20/35F	38/50F
Main Burner	Bray AB 200015	Bray AB 200016
Burner Injector	Bray Cat 16/1000	Bray Cat 16/1400
Pilot Injector	Bray Cat 968 size 7½	
Gas Valve	Honeywell V4600A 1023	
Thermocouple	Junkers CT101222	
Piezo unit	Vernitron 60053	
Boiler thermostat	Ranco C77 PO105	
Fan assembly	Smiths FFB0219/003	
Pressure switch	Yamatagi C6052A1007	
Weight empty	57 kg (125 lb)	62 kg (136 lb)
Water content	3.86 litre (0.85 gal)	4.55 litre (1.0 gal)
Head loss*	0.23 m (9 in)	0.35 m (14 in)
Max static hd.	30.5 m (100 ft)	
Min static hd. (gravity)	1.0 m (3.25 ft)	
Min static head (fully pumped)	0.05 m (2 in)	
Spark electrode	Kigass 7941, gap 3.0/4.0 mm	

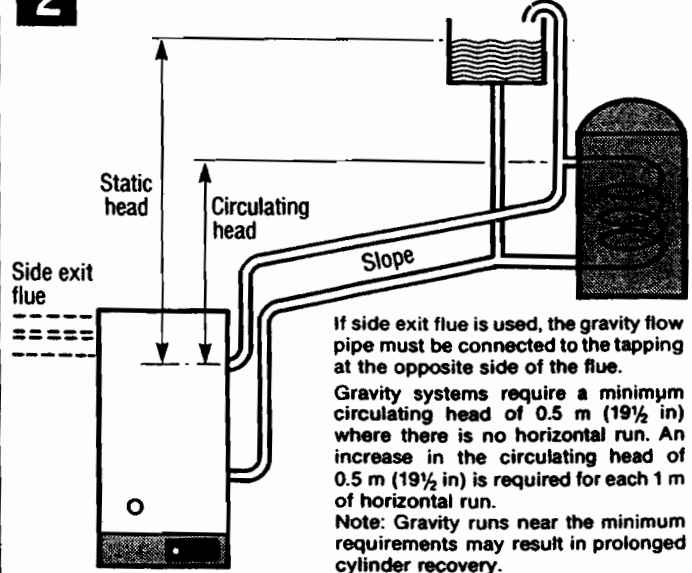
* Head loss given is applicable only when the heating return is connected to the ¾ in connection under the boiler, and the temperature rise across the boiler is 11°C (20°F).

In the event of any fault occurring during the commissioning of the boiler a fault finding guide is available in the maintenance instructions.

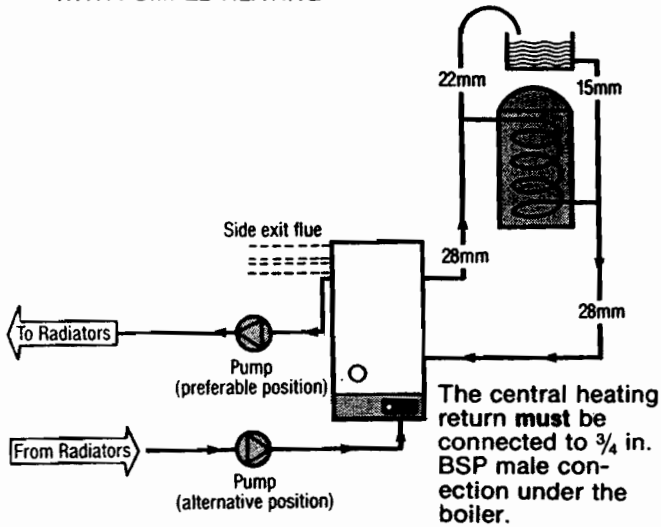
1 BOILER CONNECTIONS



2 GRAVITY SYSTEM LIMITS

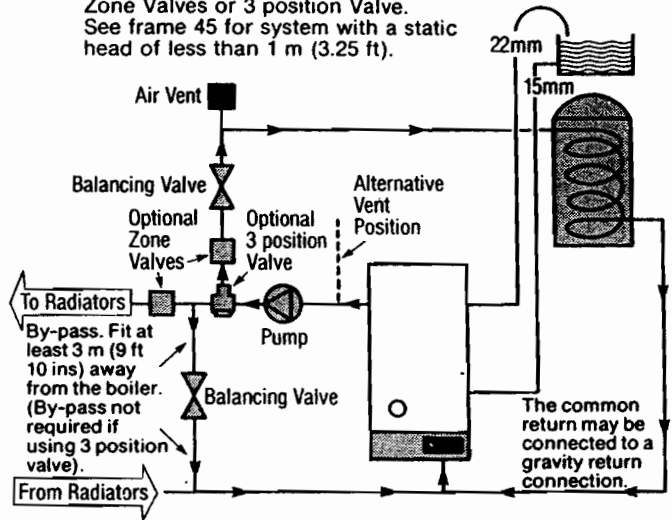


3 GRAVITY HOT WATER SYSTEM PIPING DIAGRAM WITH PUMPED HEATING



4 FULLY PUMPED SYSTEM PIPING DIAGRAM

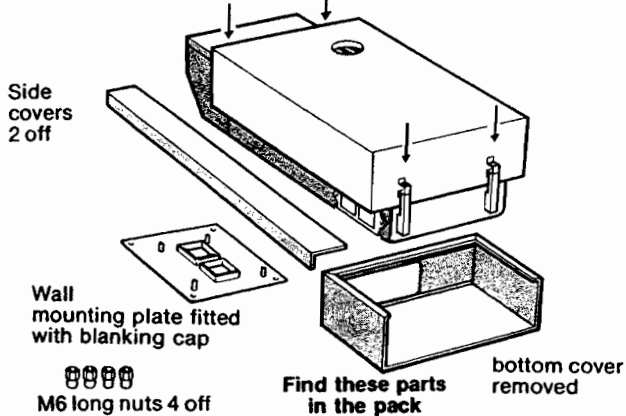
For use with Thermostatic Radiator Valves, Zone Valves or 3 position Valve. See frame 45 for system with a static head of less than 1 m (3.25 ft).



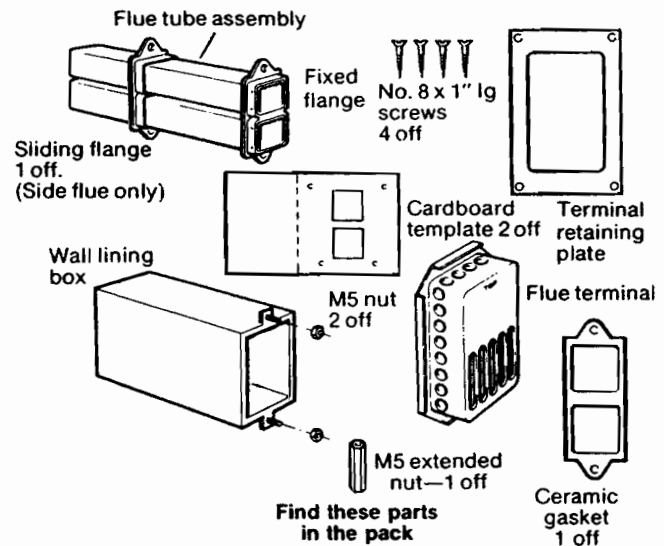
5 UNPACK THE BOILER

When unpacking the boiler take care not to damage the floor.

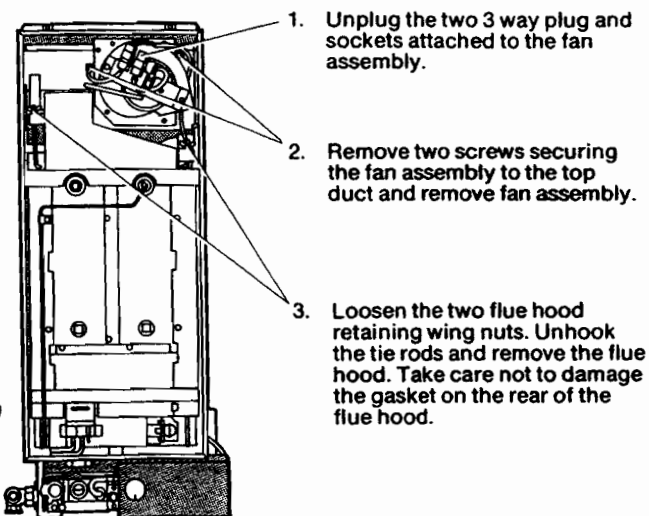
- Slide off the bottom cover.
- Remove the boiler case. The case is secured by four screws, to gain access to the bottom R/H screw remove the wiring centre as described in frame 35. Replace wiring centre after case is removed. 38/50F only. Discard the packing piece from the top of the heat exchanger.



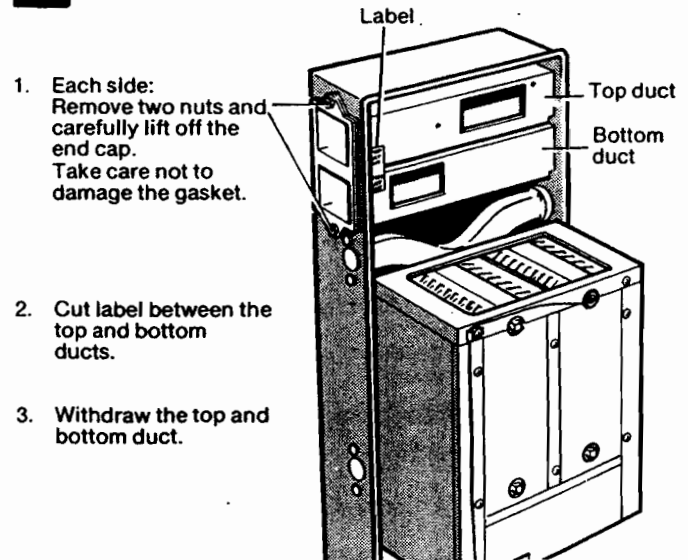
6 UNPACK THE FLUE TERMINAL ASSEMBLY



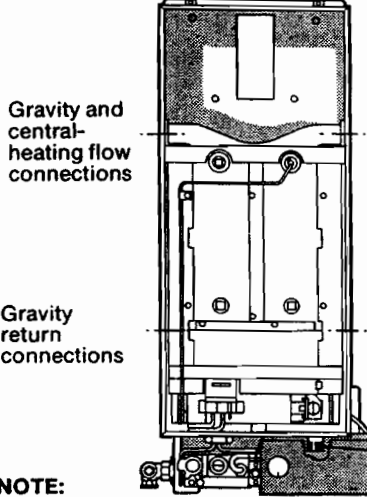
7 PREPARE THE BOILER



8 Prepare the Boiler—(continued)

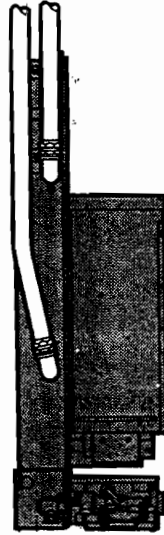


9 PREPARE THE BOILER CONNECTIONS



1. Stand the boiler up. Take care not to damage the floor. Fit and seal fittings to the boiler connections.
 2. Use 1 in. BSP M/F elbows for the side tappings with compression adaptors fitted.
 3. Where the installed position will provide minimum side access, short lengths of copper tube should be fitted to the connections as shown in frame 10. These connections should be tested for soundness before installation.
 4. Plug all unused tappings.
- Heating return connection.**
For fully pumped systems the common return may be connected to a gravity return connection.

10 TO ACCOMMODATE PIPEWORK WITHIN THE PLUMBING SPACE



To enable the pipework to be accommodated within the plumbing space where side access is restricted, short lengths of copper tube should be fitted to the connections to terminate just clear of the top and/or bottom of the boiler. When two tubes are connected to the same side of the boiler and both run in the same direction, e.g. vertically upwards as shown, the lower elbow should be set to give the necessary clearance between the tubes.

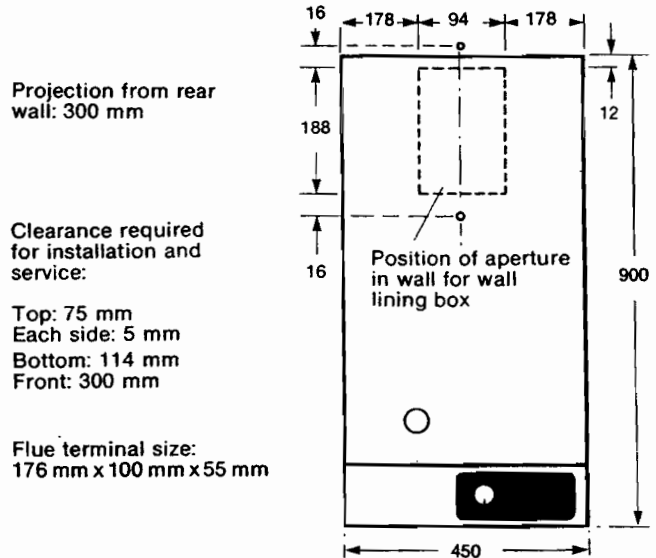
Note: If side exit flue is used and gravity hot water. The gravity flow must be connected to the top tapping on the opposite side to the flue.

11 REAR EXIT FLUE

Refer to frames 12, 13, 14, 15 and 16 then proceed to frame 27.

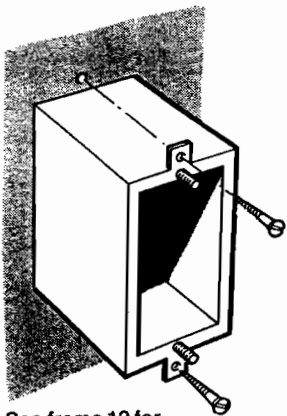
If the extended flue tubes are used, the sliding flange should be removed from the standard flue tubes supplied with the boiler and fitted to the extended tubes. Discard the standard flue tubes.

12 BOILER DIMENSIONS AND MINIMUM CLEARANCES



13 FIT THE WALL LINING BOX

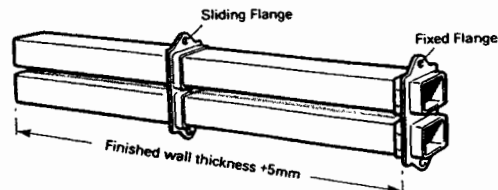
The standard flue terminal assembly is suitable for wall thicknesses 100 mm—450 mm (4 in—17 $\frac{3}{4}$ in). Extended flue tubes are available for wall thicknesses up to 600 mm (23 $\frac{5}{8}$ in).



See frame 12 for position of fixing screws.

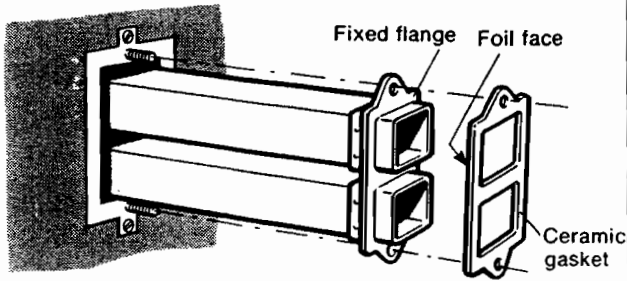
1. Cut hole in wall to size and position as shown in frame 12.
 2. Measure finished wall thickness and cut wall lining box to wall thickness less 5 mm.
- Note:** For wall thickness above 380 mm (15 in) the wall lining box does not need to be cut.
3. Insert the wall lining box into the wall from indoors.
 4. Secure wall lining box to wall with 2 No. 8 x 1 $\frac{1}{4}$ " lg counter-sunk woodscrews into plugs. Ensure wall lining box is level.
 5. Gun mastik around the wall lining box to seal to the inside wall.

14 FLUE TUBE ASSEMBLY



1. Fit the sliding flange over the two flue tubes to steady the tubes while cutting to length.
2. Cut the flue tubes to finished wall thickness plus 5 mm, measured from the back of the fixed flange.
3. Remove and discard the sliding flange.

15 FIT THE FLUE TUBES



1. With great care fit the ceramic gasket over the flue tube flange. Ensure that the foil face is against the flange.
Note: If the gasket is damaged or torn it must be replaced.
2. Insert the flue tube assembly into the wall lining box from indoors and locate over the two studs on the wall lining box. Do not secure with nuts at this stage.

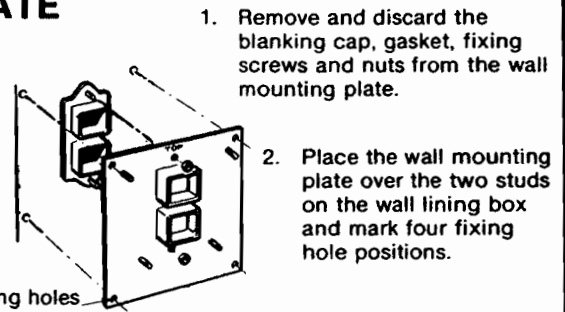
17

SIDE EXIT FLUE

Refer to frames 18, 19, 20, 21, 22, 23, 24, 25 and 26 then proceed to frame 27.

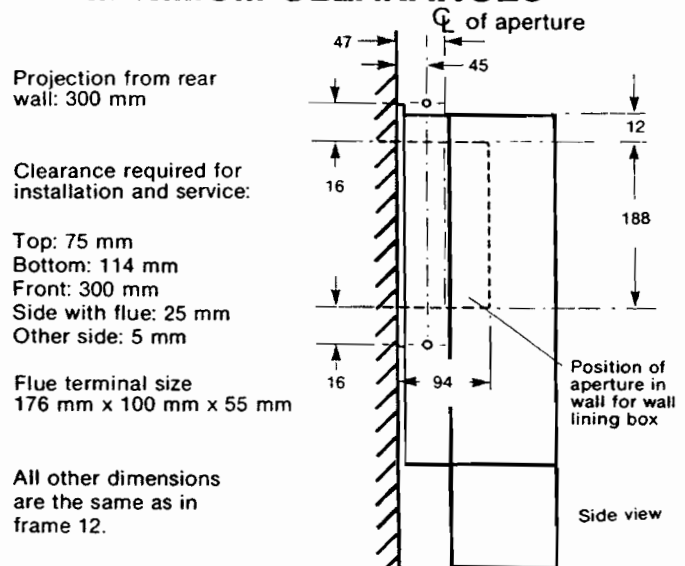
If the extended flue tubes are used, the sliding flange should be removed from the standard flue tubes supplied with the boiler and fitted to the extended tubes. Discard the standard flue tubes.

16 FIT THE WALL MOUNTING PLATE



1. Remove and discard the blanking cap, gasket, fixing screws and nuts from the wall mounting plate.
2. Place the wall mounting plate over the two studs on the wall lining box and mark four fixing hole positions.
3. Remove the mounting plate, drill and plug the holes suitable for No. 12 x 2½ in lg woodscrews.
4. Fasten mounting plate to wall with four No. 12 x 2½ in lg woodscrews. Ensure the mounting plate is level and the correct way up.
5. Secure to wall lining box with two M5 nuts (supplied) and tighten to form a seal.
6. Proceed to frame 27.

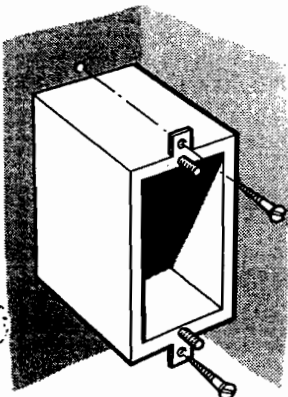
18 BOILER DIMENSIONS AND MINIMUM CLEARANCES



19 FIT THE WALL LINING BOX

Using the standard flue terminal assembly the boiler is mounted on an adjacent wall to an outside wall with a clearance of 25 mm (1 in) between the side of the boiler and outside wall. The terminal is suitable for wall thicknesses 100–380 mm (4–15 in).

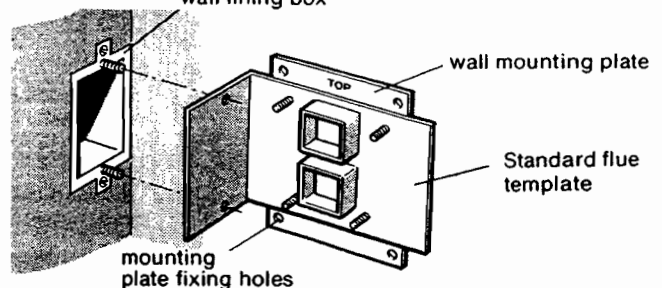
Using the extended flue tubes the maximum distance from the side of the boiler casing to the finished outside wall surface is 1380 mm (54 in).



1. Cut hole in wall to size and position as shown in frame 18.
2. Measure finished wall thickness and cut wall lining box to wall thickness.
Note: For wall thickness above 380 mm (15 in) the wall lining box does not need to be cut.
3. Insert the wall lining box into the wall from indoors.
4. Secure wall lining box to wall with 2 No. 8 x 1¼ in lg countersunk woodscrews into plugs. Ensure wall lining box is level.
5. Gun mastik around the wall lining box to seal to the inside wall.

20 POSITION THE WALL MOUNTING PLATE

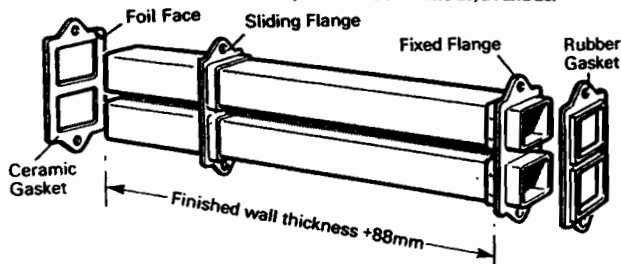
FOR EXTENDED FLUE TUBES, REFER TO FRAMES 23, 24 and 25.
wall lining box



1. Bend the standard flue template, supplied with the standard flue terminal assembly, as indicated on the template.
2. Place the template over the wall mounting plate, and holding the wall mounting plate, position the template over the two studs on the wall lining box.
3. Mark the position of the four mounting plate fixing holes. Ensure that the mounting plate is level.
4. Discard template and drill and plug the four fixing holes suitable for No. 12 x 2½ in lg woodscrews.

21 FLUE TUBE ASSEMBLY

FOR EXTENDED FLUE TUBES, REFER TO FRAMES 23, 24 and 25.

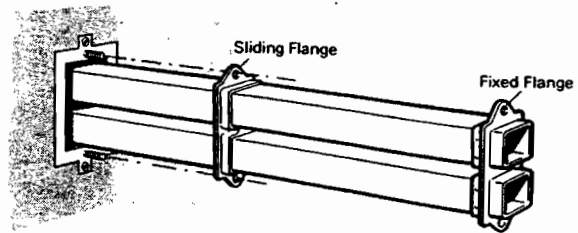


1. Fit the sliding flange over the two flue tubes to steady the tubes while cutting to length.
2. Cut the flue tubes to finished wall thickness plus 88 mm, measured from the back of the fixed flange.
3. With great care, fit the ceramic gasket over the sliding flange. Ensure that the foil face is against the flange.
4. Carefully remove the rubber gasket from one of the end caps removed in frame 8.
5. Carefully fit the rubber gasket over the fixed flange of the flue tubes. Ensure that the FLAT face of the gasket is against the flange.

Note: If either gasket is damaged it must be replaced by a gasket of the same type.

22 FIT THE FLUE TUBES

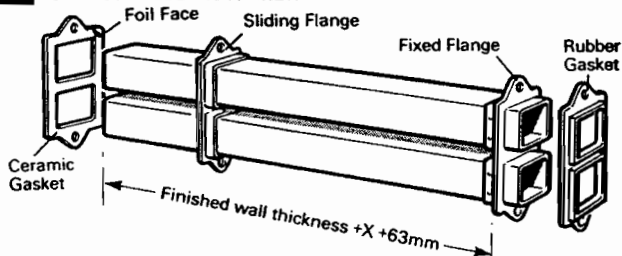
FOR EXTENDED FLUE TUBES, REFER TO FRAMES 23, 24 and 25.



1. Insert the flue tubes into the wall lining box and locate the sliding flange over the two studs on the wall lining box. Fit the two M5 nuts (supplied) finger tight.
2. Proceed to frame 26.

23 FLUE TUBE ASSEMBLY

EXTENDED FLUE TUBES ONLY.



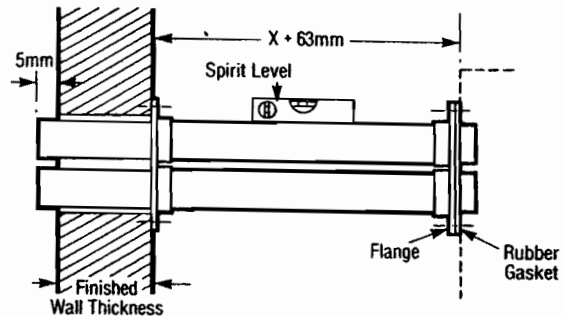
1. Decide upon the distance (X) between the side of the boiler outer casing and the inside of the outside wall.
Note: The maximum distance of X is 1380 mm—finished wall thickness.
2. Fit the sliding flange over the two flue tubes to steady the tubes while cutting to length.
3. Cut the tubes to finished wall thickness + X + 63 mm, measured from the back of the fixed flange.
4. With great care, fit the ceramic gasket over the sliding flange. Ensure that the foil face is against the flange.
5. Carefully remove the rubber gasket from one of the end caps removed in frame 8.
6. Carefully fit the rubber gasket over the fixed flange of the flue tubes. Ensure that the FLAT face of the gasket is against the flange.

Note: If either gasket is damaged it must be replaced by a gasket of the same type.

24 POSITION FLUE TUBES

EXTENDED FLUE TUBES ONLY.

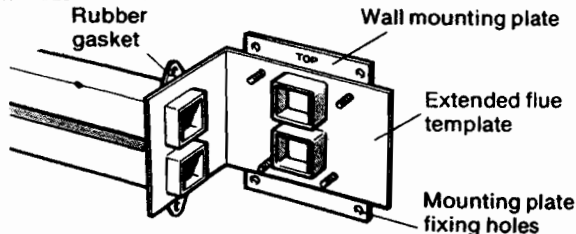
(X is the distance between wall and outside of boiler case).



1. Insert the flue tubes into the wall lining box and locate the sliding flange over the two studs on the wall lining box. Fit the two M5 nuts (supplied) finger tight.
2. Position the flue tubes so that the OUTER face of the rubber gasket on the fixed flange is X + 63 mm from the wall. Ensure that the tubes are level.
If the tubes have been cut correctly they should protrude 5 mm beyond the outside wall.

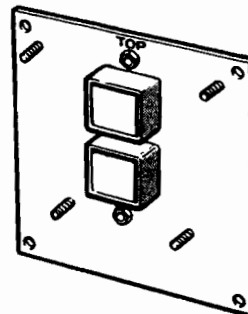
25 POSITION THE WALL MOUNTING PLATE

EXTENDED FLUE TUBES ONLY.



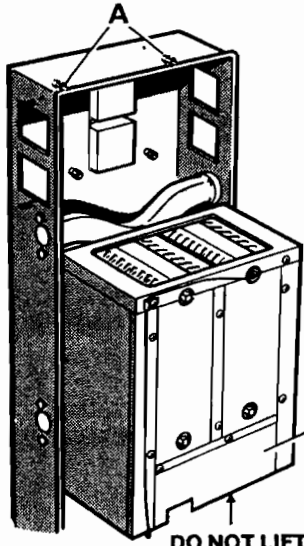
1. Bend the extended flue template, supplied with the standard flue terminal assembly, as indicated on the template.
2. Place the template over the wall mounting plate.
3. Ensuring that the flue tubes are level and in position as shown in frame 24, position the wall mounting plate so that the template is against the outer face of the rubber gasket on the fixed flange of the flue tubes.
4. Mark the position of the four wall mounting plate fixing holes. Ensure that the mounting plate is level.
5. Discard the template and drill and plug the four fixing holes suitable for No. 12 x 2½" lg woodscrews.

26 FIT THE WALL MOUNTING PLATE



1. Ensure that the blanking cap fitted to the wall mounting plate is secure.
2. Fasten the wall mounting plate to the wall with four No. 12 x 2½" lg woodscrews. Ensure it is the correct way up.
3. Push the flue tube assembly into the wall to provide clearance to fit the boiler.

27 SECURE THE BOILER TO THE WALL MOUNTING PLATE

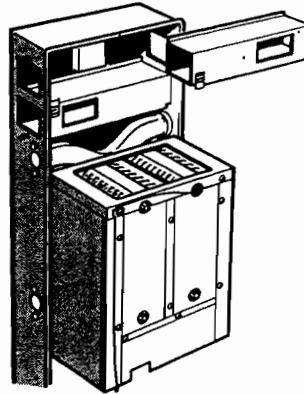


1. Lift the boiler and offer it to the wall mounting plate and secure to the mounting plate with the four extended nuts A (supplied with the boiler). Tighten to form a seal.

Note: If access, around the boiler for lifting, is restricted the front tray may be removed by removing two screws and sliding the tray down. This will allow the boiler to be lifted by the heat exchanger assembly. Do not forget to replace the front tray.

DO NOT LIFT HERE

28 FIT THE BOTTOM AND TOP DUCTS



1. Fit the bottom duct first, ensuring that it locates over the wall mounting plate spigot.
2. Fit the top duct ensuring that it locates over the wall mounting plate spigot. Ensure that the label previously cut is correctly aligned.

Rear exit flue only:
Replace the two end caps (one each side) removed in frame 8.

Side exit flue only:
Replace one end cap (opposite side to flue) removed in frame 8.

Ensure that the RUBBER gaskets are intact with the FLAT face against the end cap and that the gaskets fit inside the top and bottom ducts. Secure each cap in position with two nuts.

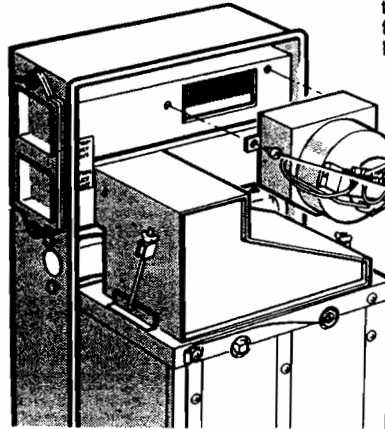
29 SECURE THE FLUE TUBE ASSEMBLY

SIDE EXIT FLUE ONLY.

1. Carefully withdraw the flue tube assembly from the wall and locate the fixed flange over the two studs on the side of the boiler chassis. Ensure that the rubber gasket fits INSIDE the top and bottom ducts.
2. Secure in position with two nuts removed in frame 8. Tighten to form a seal.
Note: If access to the bottom stud on the side of the chassis is restricted by pipework and flue tubes, use the extended nut supplied with the flue terminal assembly.
3. Secure the sliding flange to the wall lining box by tightening the two nuts to form a seal.

30 REPLACE THE FLUE HOOD AND FAN

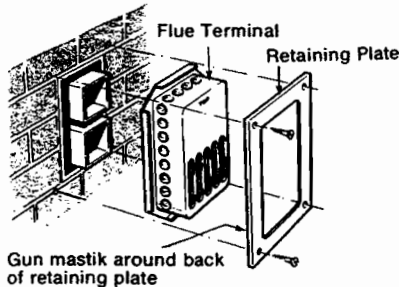
1. Replace the flue hood and engage the tie rods.
2. Push back the flue hood and tighten the two wing nuts to form a seal between the flue hood and the bottom duct.



4. Re-connect the two 3-way plug and sockets.

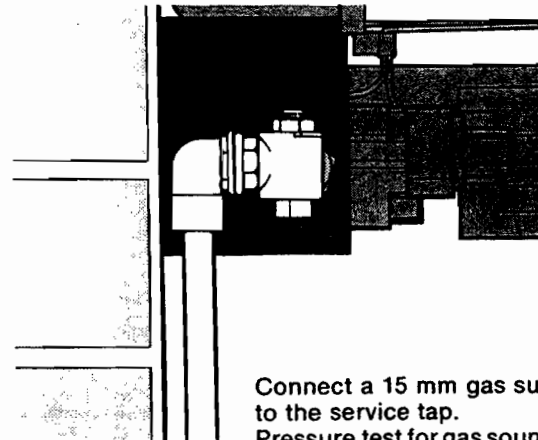
3. Replace the fan assembly and secure with two screws. Tighten to form a seal between the fan and the top duct.

31 FIT THE FLUE TERMINAL



1. Fit the terminal over the flue tubes, ensuring it is the right way up.
2. Place the terminal retaining plate over the terminal and mark the position of the four fixing holes.
3. Remove the retaining plate and terminal and drill and plug the fixing holes, suitable for No. 8 x 1" lg woodscrews.
4. Refit the terminal to the flue tubes, ensuring it is the right way up.
5. Gun mastik around the back of the retaining plate and secure to the wall with four No. 8 x 1" lg screws (supplied with the flue assembly).

32 GAS SUPPLY



Connect a 15 mm gas supply to the service tap.
Pressure test for gas soundness (CP331:3)

33 COMPLETE THE INSTALLATION

After connecting the flue, gas and water connections, complete the electric wiring (see frames 34—38).

Thoroughly flush the whole system with cold water without the pump in position. Ensure all valves are open. With the pump fitted, fill, vent and check for soundness, rectifying where necessary.

When the system has been commissioned (see frame 42) drain the system while the water is still hot in order to complete the flushing process. Refill, vent and make a final check for water soundness.

34 ELECTRIC WIRING

Read this BEFORE wiring the Boiler.

To simplify wiring, the boiler electric circuit can be made suitable for connection to a fully pumped system or to a gravity hot water system by exchanging a coloured wiring selector plug in the wiring selector socket.

GRAVITY HOT WATER SYSTEM: use the BLUE Plug.

FULLY PUMPED SYSTEM: use the RED Plug.

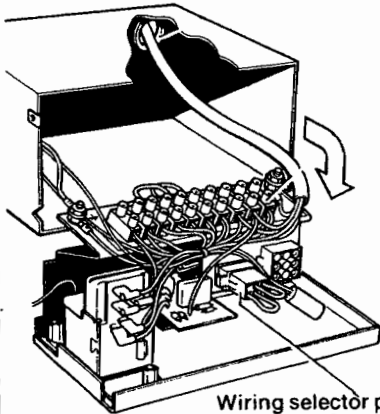
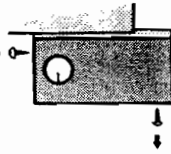
The boiler is supplied for connection to a GRAVITY HOT WATER system.

The RED plug will be found packed in the wiring centre.

When replacing the control box cover ensure that the thermostat capillary is located in the cut out in the left hand side of the control box.

35 CONNECT THE MAINS

1. Take out the 2 fixing screws.
2. Pull out the wiring centre and hang it on the control box by the screws in the rear of the wiring centre.
3. Slacken the two screws in the cable clamp on the back of the wiring centre. Feed the mains lead under the clamp and through the grommet.

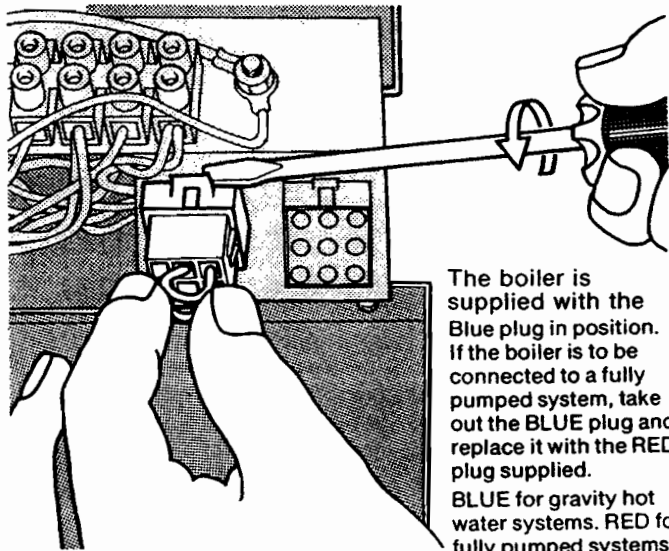


Wiring selector plug, (see frame 36).

4. Connect the wires, brown to L and blue to N on the terminal block and green and yellow to the earthing stud. The pump lead and any external controls wiring should also be fed under the clamp and connected to the terminal block. See wiring diagrams, frames 46 and 47.
5. Keep the wiring centre in the open position, take up excess slack in the cables between the terminal block and the cable clamp, then tighten the cable clamp screws. Check that the wiring centre will open and close freely without straining the cables.

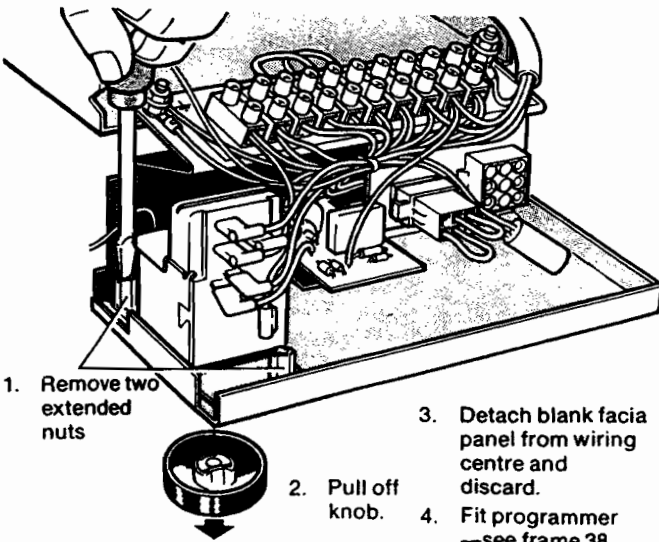
Note: when connecting the mains lead to the terminal block and earthing stud, ensure that the length of the earth wire is such, that if the mains lead slips out of the cable clamp the live and neutral wires become taut before the earth wire.

36 WIRING SELECTOR PLUGS



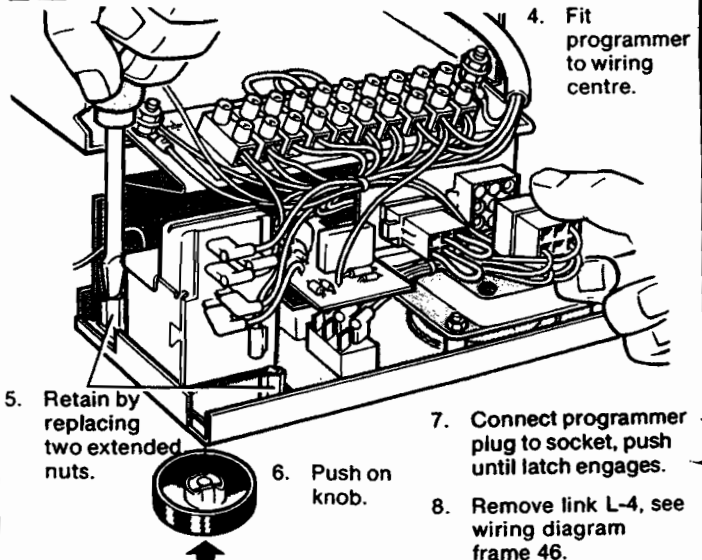
The boiler is supplied with the Blue plug in position. If the boiler is to be connected to a fully pumped system, take out the BLUE plug and replace it with the RED plug supplied. BLUE for gravity hot water systems. RED for fully pumped systems.

37 TO FIT PROGRAMMER KIT



1. Remove two extended nuts
2. Pull off knob.
3. Detach blank fascia panel from wiring centre and discard.
4. Fit programmer —see frame 38.

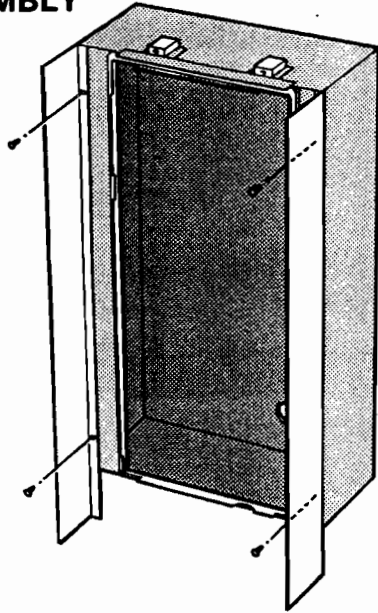
38 Programmer Kit—(Continued)



4. Fit programmer to wiring centre.
5. Retain by replacing two extended nuts.
6. Push on knob.
7. Connect programmer plug to socket, push until latch engages.
8. Remove link L-4, see wiring diagram frame 46.

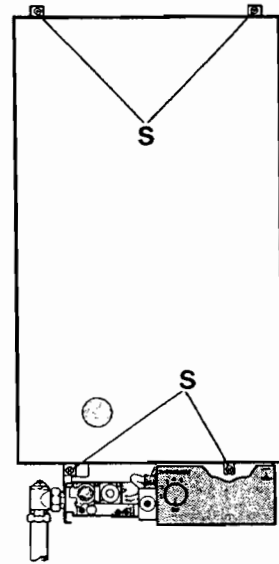
39 FINAL ASSEMBLY (A)

Fix one or both plumbing space covers, if required, using the self tapping screws supplied fitted to the case.



40 FINAL ASSEMBLY (B)

1. Check that the case foam seal is in position.
2. Slide the case in position over the boiler and push back to form a seal.
3. Secure the case with 4 screws S.
4. Replace the wiring centre and fix in position with 2 screws.



WARNING
IT IS IMPERATIVE FOR COMPLETE SAFETY OF OPERATION THAT THE OUTER CASE IS PROPERLY FITTED.

41 COMMISSION THE BOILER (A)

SEE FRAME 43 FOR BOILER CONTROLS.

1. Ensure that the electricity supply is OFF.
2. Set the boiler thermostat to OFF.
3. Loosen the gas valve inlet pressure test point screw one turn.
4. Turn on the gas supply and open the boiler service tap to purge in accordance with CP 331:3.
5. Retighten the gas valve inlet pressure test point screw. Test for gas soundness around the screw.
6. Fully depress the gas valve operating button and keep it pressed in. At the same time operate the igniter button, to light the pilot, which can be seen through the inspection window. If the pilot does not light, operate the igniter repeatedly until it does. When the pilot lights, continue to hold the gas valve operating button in for a further 10 to 20 seconds, then release it slowly.
Caution: If the pilot does not stay alight, release the gas valve operating button and twist it in the direction of the arrow. Wait for 3 minutes and repeat operation 6 until the pilot is lit. Continue to hold the gas valve button in for 20 seconds, then release it slowly.
7. Check that the pilot throttle is fully open and that the pilot flame (approximately 20 mm long) envelops the thermocouple tip.
8. Check the burner setting pressure as follows:
 - a) Loosen the burner setting pressure test point screw one turn and connect a pressure gauge.
 - b) Turn on the electricity supply and check that all system controls are turned on, and that the pump is running.
 - c) Set the boiler thermostat to 5. The main burner will light. Allow the burner to run for 10 minutes.

42 COMMISSION THE BOILER (B)

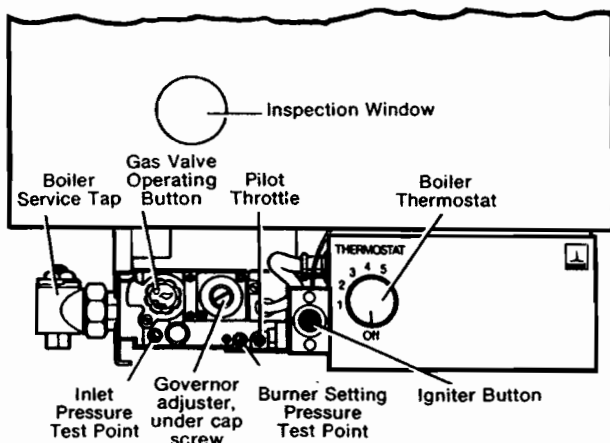
- d) If necessary adjust the burner setting pressure to give the heat input required. To decrease the burner setting pressure turn the governor adjuster anti-clockwise.
Note: The boiler is factory set to the maximum input.

NOMINAL BOILER RATINGS

BOILER	OUTPUT		INPUT		BURNER SETTING PRESSURE	
	kW	Btu/h	kW	Btu/h	mbar	in w.g.
Olympic 20/35F	5.86	20 000	8.14	27 800	6.5	2.6
	8.21	28 000	11.14	38 000	11.5	4.6
	10.26	35 000	13.69	46 700	16.6	6.7
Olympic 38/50F	11.14	38 000	15.05	51 400	10.5	4.2
	12.89	44 000	17.30	59 000	13.7	5.5
	14.65	50 000	19.53	66 600	17.5	7.0

9. Set the boiler thermostat to OFF, disconnect the pressure gauge and re-tighten the test point screw. Test for gas soundness around the screw.
10. Ensure the arrow on the data plate is against the correct boiler rating.
11. When the system has been tested, drain the water while it is still hot in order to complete the flushing process. Refill, vent and make a final check for water soundness.
Note: If the electricity is cut off for any reason, check that the pilot is alight when it is restored.

43 BOILER CONTROLS



44 HAND OVER THE INSTALLATION

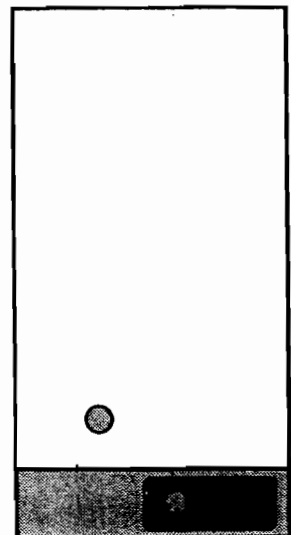
Hand the USER INSTRUCTIONS to the User and instruct in the safe operation of the boiler and controls.

Advise the User of the precautions necessary to prevent damage to the heating/hot water system and to the building in the event of the system remaining inoperative during frost conditions.

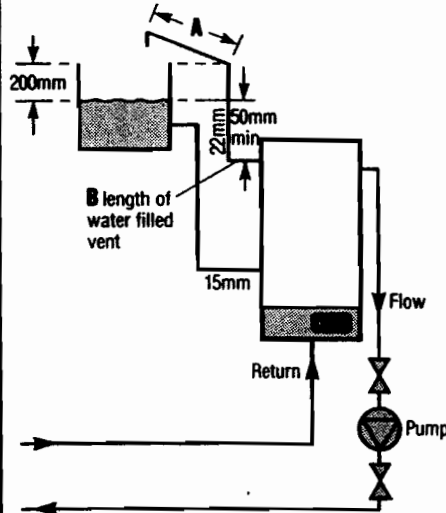
Slide the bottom cover into place. Advise the user that for continued efficient and safe operation of the boiler it is important that adequate servicing is carried out at intervals recommended by the local Gas Region.

Leave a permanent card attached to the boiler giving:

1. Name and address of installer.
2. Date of installation.
3. A wiring diagram of the circuit.



45 LOW HEAD SYSTEM



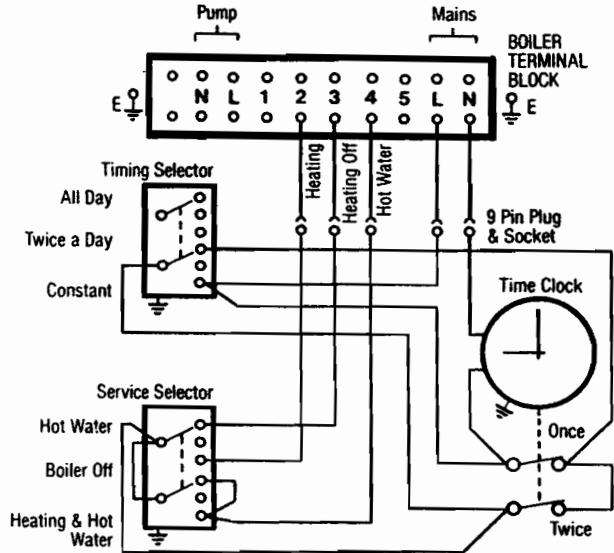
The open vent, cold feed and combined flow can be taken from either side of the boiler. The combined return must be connected to the pumped return tapping. The pump must be installed in the combined flow.

The system can have 3-port valve, circuit valves or thermostatic radiator valves.

HEATING LOAD Btu/h	MYSON PLADS		OTHERS	
	A(mm)	B(mm)	A(mm)	B(mm)
50 000	420	330	580	450
40 000	330	290	450	400
30 000	230	260	320	360
20 000	140	200	190	270
10 000	50	200	70	200

Ensure that the pump has sufficient static head. Check the pump manufacturer's minimum head.

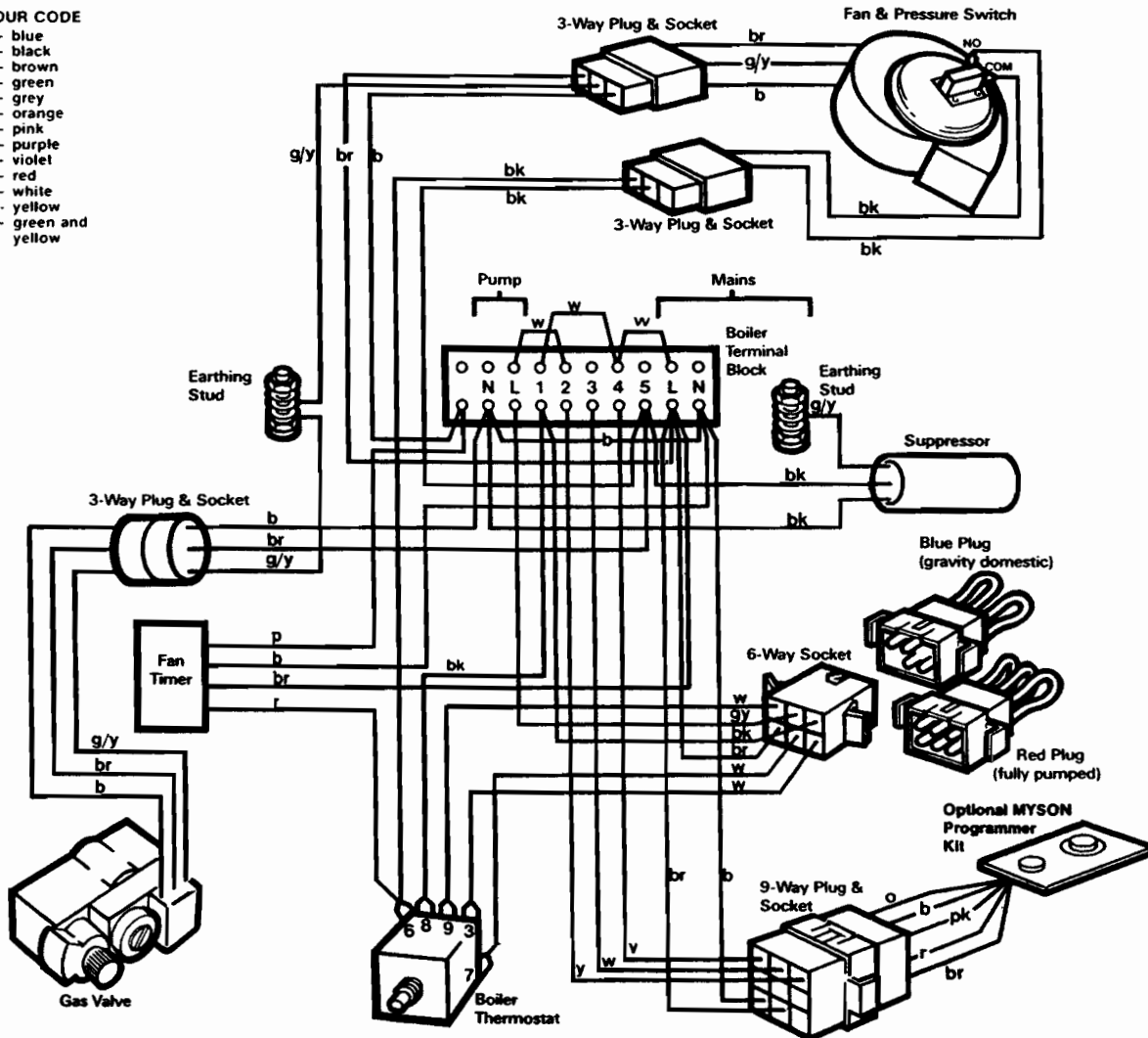
46 MYSON PROGRAMMER WIRING



47 BOILER WIRING DIAGRAM

COLOUR CODE

- b — blue
- bk — black
- br — brown
- g — green
- gy — grey
- o — orange
- pk — pink
- p — purple
- v — violet
- r — red
- w — white
- y — yellow
- g/y — green and yellow



British Patent No. 1507871

NOTE: If a MYSON programmer is fitted remove link L-4

WARNING

**IT IS IMPERATIVE FOR COMPLETE
SAFETY OF OPERATION THAT THE
OUTER CASE IS PROPERLY FITTED.**

**CHECK THAT THE FOUR CASE FIXING
SCREWS ARE TIGHTENED SUFFICIENT
TO COMPRESS THE SEALING GASKET.**

**DO NOT RUN THE BOILER WITH THE
CASE REMOVED.**

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Tyne & Wear
NE11 0PG

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Registered in England No. 412935

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OMYSON