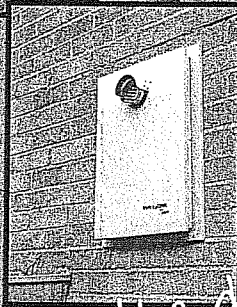
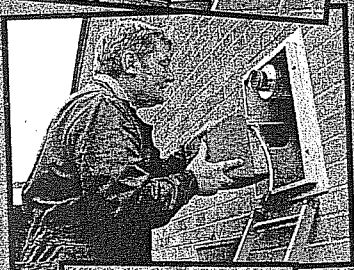
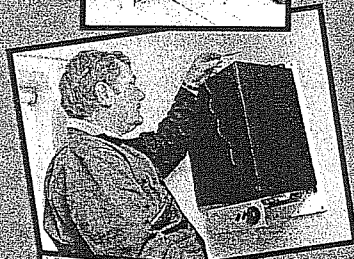




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keeping the dirty
work outside!

W HANDBOOK

AND SERVICE LOG

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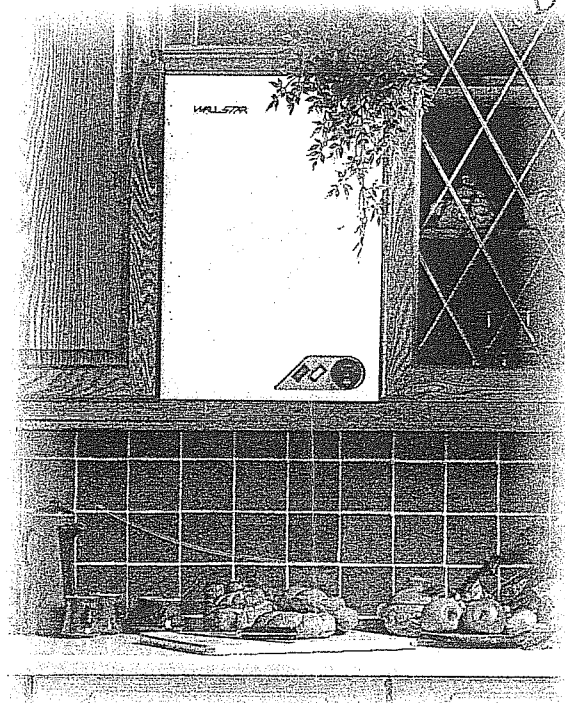
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WALLSTAR

by HRM



Your Boiler Serial Number is:

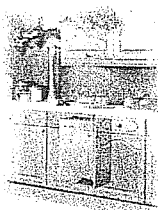
HALF MOON

MODEL

12/14 ☐

15/19 ☐

20/24 ☐



FREEPHONE: 0800 0282529

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- FAX: 01953 454483	
- E-MAIL: sales@hrmboilers.co.uk technical@hrmboilers.co.uk	

Dear Householder

Thank you, for selecting a boiler from HRM. Your boiler is the culmination of years of experience in the development; testing and manufacture of oil fired equipment.

Our boilers are independently tested and comply with the latest European Boiler Efficiency Directive; our quality assurance procedures are also approved and comply with the International Standard, ISO9000.

Each boiler is manufactured and tested with care by a member of our production team; you will find their name inside the boiler casing.

Your boiler will provide you with a long and trouble free service life provided that a few essential steps are addressed. Please take the time to read the "householder information" section of this handbook.

In the unlikely event of a fault, please contact your installer who should be able to identify the cause of the problem, if appropriate your installer will contact us.

Hedley Mickleburgh

HOUSEHOLDER INFORMATION

IMPORTANT!

Your boiler must be commissioned, in order to:

- Ensure the boiler has been installed correctly and avoid premature failure.
- Set the boiler to its optimum efficiency. Operating conditions for the boiler will vary from site to site, your commissioning engineer has specialised equipment to check the oil pressure and analyse the exhaust gases for "temperature", "smoke" and "CO2" content.
- Your installer will organise commissioning of your boiler; should you experience any difficulty locating an engineer our service department may be able to provide you with the name of an engineer in your area.

GUARANTEE

Your HRM boiler is guaranteed for 2 years from the date of installation.

Guarantee conditions

- The boiler must be installed and commissioned in accordance with our handbook.
- The boiler must not be repaired, modified or tampered with by any person not authorised by HRM.

Guarantee exclusions

- The burner nozzle is excluded from guarantee.

EXTENDED GUARANTEE

Help us to help you

The guarantee registration document inside the rear cover should be completed as appropriate by your installer / engineer, this is your record that the boiler has been installed in accordance with our recommendations. Return the copy to HRM in order to qualify for a further 3 years guarantee of the heat exchanger (total **5 years**).

Extended guarantee conditions

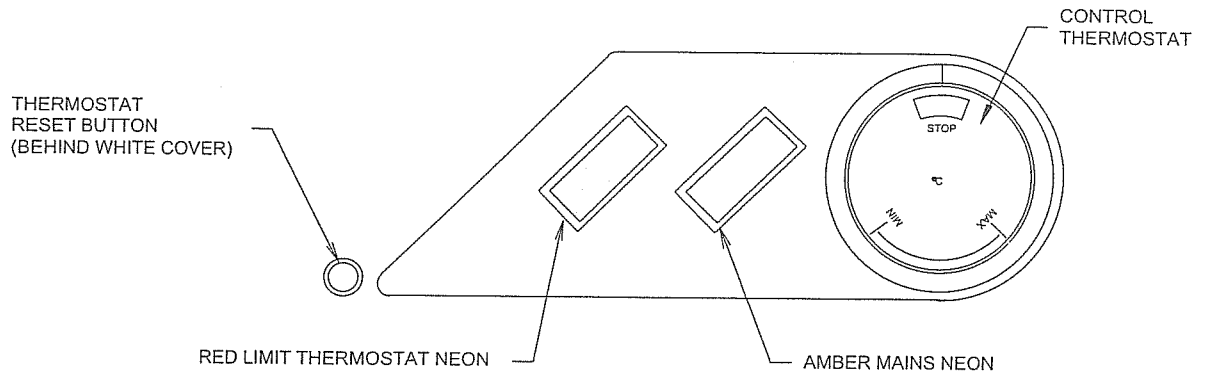
- The boiler must be serviced annually and maintained in accordance with the handbook, a service log is provided on the back page of this handbook.
- This guarantee is in addition to your statutory and other legal rights.

AFTER SALES SERVICE

- If your boiler fails during the guarantee period contact your installer, who will be able to identify the cause of the problem, if appropriate, your installer will contact us.
- In no circumstances should "in guarantee" work be undertaken without authorisation from our service department.
- If you are unable to contact your installer please contact our service department.

BOILER CONTROLS

Control panel



Temperature control thermostat

The control thermostat regulates the temperature of the water within the boiler.

The recommended settings are "MAX." for heating and hot water and "MIN." for hot water only.

Do not operate the boiler below the minimum setting; this will induce corrosion and reduce the life of the boiler.

Boiler overheat (limit) thermostat

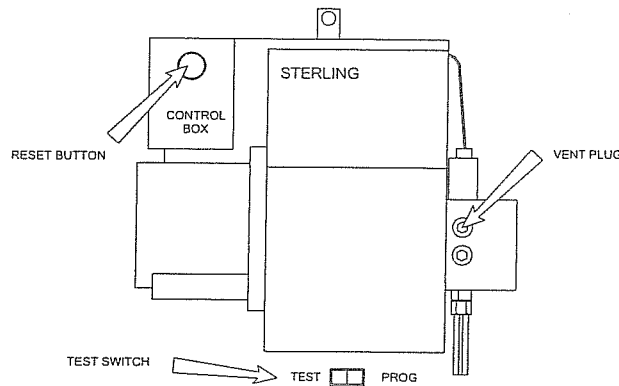
If the boiler overheats the reset button will trip and cut the power supply to the boiler, allow the boiler to cool then press the reset button to reset the thermostat. To gain access to the reset button, switch off the power supply and remove the white casing.

IMPORTANT – if overheating occurs, other than very occasionally, consult your installation engineer; there may be a fault with the central heating system.

Mains neon lamp

The lamp is illuminated when there is power to the control thermostat and the control system (time clock) is calling for heat

Burner reset button and test switch



The burner is equipped with a flame failure device, when activated the reset button on the burner control box is illuminated. Refer to the faultfinding section of the handbook to identify possible causes.

The test switch is provided for the service engineer, in normal operation the switch should be left in the PROG position.

Switching the boiler on

- turn on the oil supply
- switch on the mains supply
- set the timer control to on
- set the boiler control thermostat to the required setting

Switching the boiler off for long periods

- have the boiler serviced
- switch off the mains supply
- turn off the oil at the tank

Oil delivery

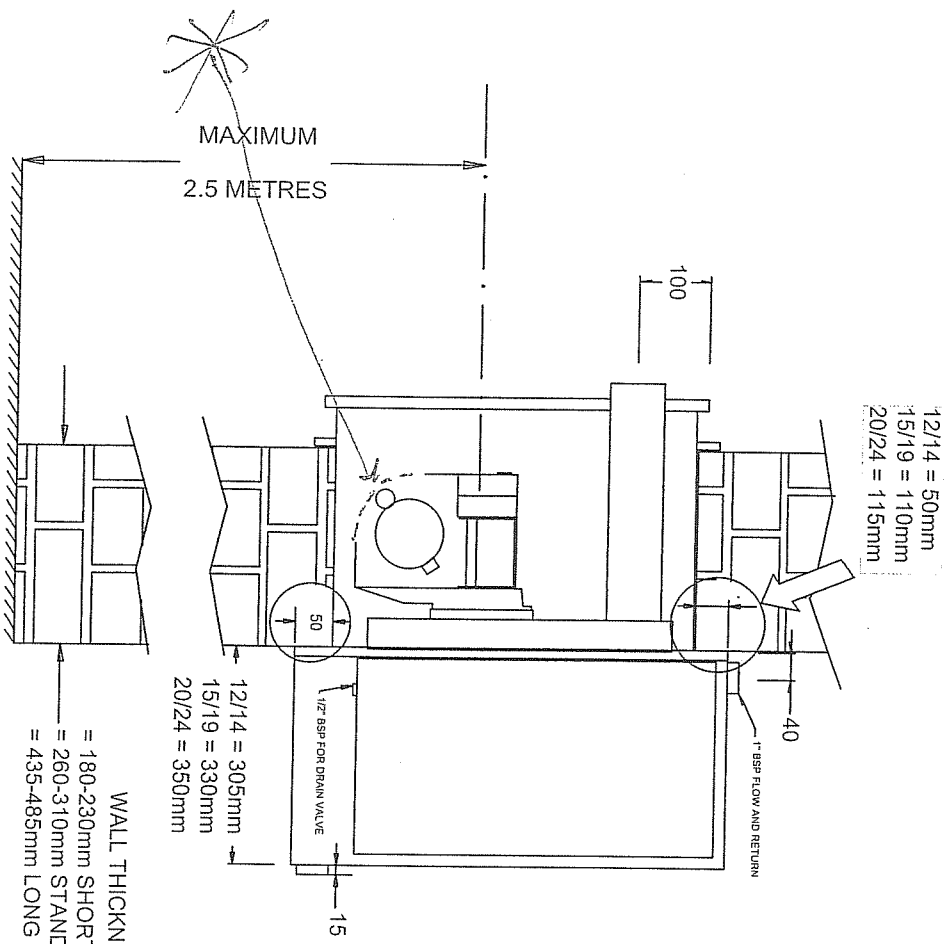
Switch the boiler off during an oil delivery; wait for a short period before switching the boiler on to allow sediment in the bottom of the tank to settle.

Maintenance

Your boiler should be serviced annually, failure to have this done will invalidate your guarantee and also lead to inconvenient breakdowns. A service log is provided on the inside of the rear page.

If you have difficulty in locating a service engineer please contact our service department who may be able to provide you with the name of an engineer in your area.

BOILER DIMENSIONS

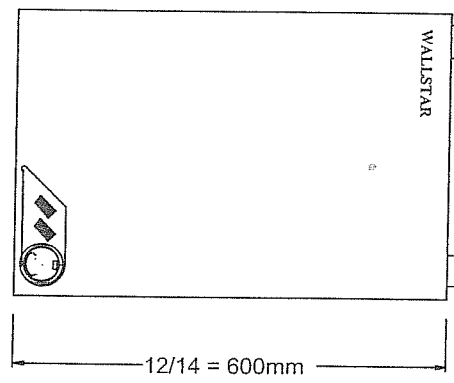


12/14 = 50mm
15/19 = 110mm
20/24 = 115mm

12/14 = 305mm
15/19 = 330mm
20/24 = 350mm

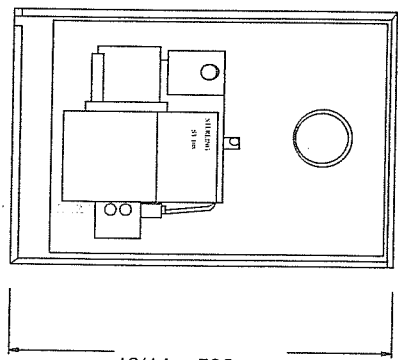
WALL THICKNESS
= 180-230mm SHORT MODEL (12/14 & 15/19 ONLY)
= 260-310mm STANDARD MODEL
= 435-485mm LONG MODEL

12/14 = 400mm
15/19 = 430mm
20/24 = 460mm



12/14 = 306mm
15/19 = 336mm
20/24 = 365mm

12/14 = 600mm
15/19 = 700mm
20/24 = 750mm



12/14 = 330mm
15/19 = 360mm
20/24 = 390mm

WALL DUCT DIMENSIONS

12/14 = 500mm
15/19 = 540mm
20/24 = 580mm

NOTE

1. 12/14 MODEL, ALLOW 120mm CLEARANCE ABOVE CASING FOR REMOVAL OF THERMOSTAT PHIALS.
2. 15/19 & 20/24 MODELS, ALLOW 75mm CLEARANCE ABOVE CASING FOR ACCESS TO CASE RETAINING SCREWS.
3. FOR A WALL THICKNESS BELOW 180mm, EITHER CONSTRUCT STUDWORK ON THE INSIDE FACE OF THE WALL OR ALLOW THE BOILER TO PROTRUDE EXTERNALLY.
4. ALLOW 10mm CLEARANCE EITHER SIDE OF THE INTERNAL WHITE CASING.

EXTENSION KIT PART NUMBERS			
MODEL	50mm	100mm	
12/14	12/14X50	12/14X100	
15/19	15/19X50	15/19X100	
20/24	20/24X50	20/24X100	

TECHNICAL SPECIFICATIONS

Heating system requirements: fully pumped, conventional open vented or sealed systems.

Maximum operating pressure: 3bar (43.5psi) static head 30.59 meters (100 feet)

Operating Temperature: 60°C to 80°C Maximum

Resistance to water flow: @ 10°C temperature rise across the boiler
Model 12/14 = 26mm, 15/19 = 35mm 20/24 = 48mm W.G.

Thermostats: control thermostat range = 58-88 degrees C
limit thermostat, manual reset , set point = 110-6 degrees C

Electrical supply: 230v single phase 50Hz, fused 5 amp

Burner: Sterling 40

Fuel: kerosene 28 second class C.

Oil supply connection: ¼" BSP

Weight empty: 12/14 = 62kg, 15/19 = 70kg, 20/24 = 74kg

Water capacity: 12/14 = 17.5 litres, 15/19 = 19.25 litres, 20/24 = 21litres

BURNER SETTINGS

BOILER MODEL		12/14		15/19		20/24	
OUTPUT	Btu/h x		50		65		82
	k/W		14		19		24
Nozzle	US/GPH Size &Type		0.50 80.0 EH		0.65 ~~60.0 EH~~ 80.0 EH		0.75 80.0 EH
Oil Pressure	BAR		7.5		7.5		7.5
	PSI		110		110		110
Firing Rate	Kg/hr Litres/hr		1.47 1.86		1.91 2.40		2.20 2.79
Air Setting	SCALE		8		8		9
Smoke	Bacharach Scale		0		0		0
Co,	%		10.5		11		11.5
Flue Gas Temp.	Less Ambient °C		260		245		250

BOILER INSTALLATION

REGULATIONS

The installation of oil fired boilers must comply with the following Standards and Codes of Practice.

BS 5410 – Part 1	Oil installations up to 45kw
BS 5449	Forced circulation hot water central heating systems for domestic premises
BS 4543 – Part 1 & 3	Factory made insulated chimneys.
BS 7593:1992	Treatment of water in hot water central heating systems
Building Regulations	Part J England and Wales, Part F Scottish Regulations and Technical Booklet L Northern Island
BS7671: 1992	Electrical Regulations

BOILER SIZING

It is important to establish the correct size of boiler required, boiler output will depend on a number of factors including:

- the preferred room temperatures
- the design winter temperature
- structural and ventilation heat losses
- domestic hot water requirements

This is a complicated calculation, we recommend you employ the services of a heating engineer, who will determine the correct size of boiler required for your property.

REFURBISHING AN OLD SYSTEM

WARNING! - BEFORE INSTALLING A NEW BOILER.

The system should be chemically cleaned to remove debris in the form of black magnetite sludge and lime scale that accumulates in radiators and pipe work. Failure to do this will result in debris adhering to the clean surfaces of a new boiler, causing kettling or knocking noises it also prohibits efficient heat transfer. A cleanser such as Fernox Superfloc can be added to the system 48hrs prior to changing the boiler.

SYSTEM PROTECTION

After installation

Flush the system with a cleanser such as Fernox Superfloc, to remove traces of flux residues, grease, metal swarf, solder pieces and oils used during component manufacture.

After flushing

Add a corrosion inhibitor such as Fernox MB-1 this will minimize the chemical action and chemical change that takes place in the system primary water and system components.

Note.

The manufacturer's usage instructions for chemical cleaners and inhibitors should always be followed. Please refer to BS7593 1992 for a detailed explanation of cleansing procedures.

BOILER LOCATION

Noise levels, consideration should be given to the following:

- some people are sensitive to even low noise levels.
- small rooms will accentuate noise levels
- where a flue terminates near the boundary of an adjoining property, consideration should be given to possible noise disturbance as some people are sensitive to even low noise levels.

Installation within bathrooms is not permitted

Roof space and bedroom installation should only be considered where there is no alternative.

WALL CONSTRUCTION

The boiler must be installed in a suitable load bearing external wall.

For walls constructed of timber, Stramit or similar material, the structural material must support the weight of the boiler when filled with water. A stud work frame should be constructed when appropriate.

It is not necessary to construct a heat barrier around the wall duct.

Where the external cladding is of weatherboard or similar, construct a "picture frame", for the wall duct trim to seat against.

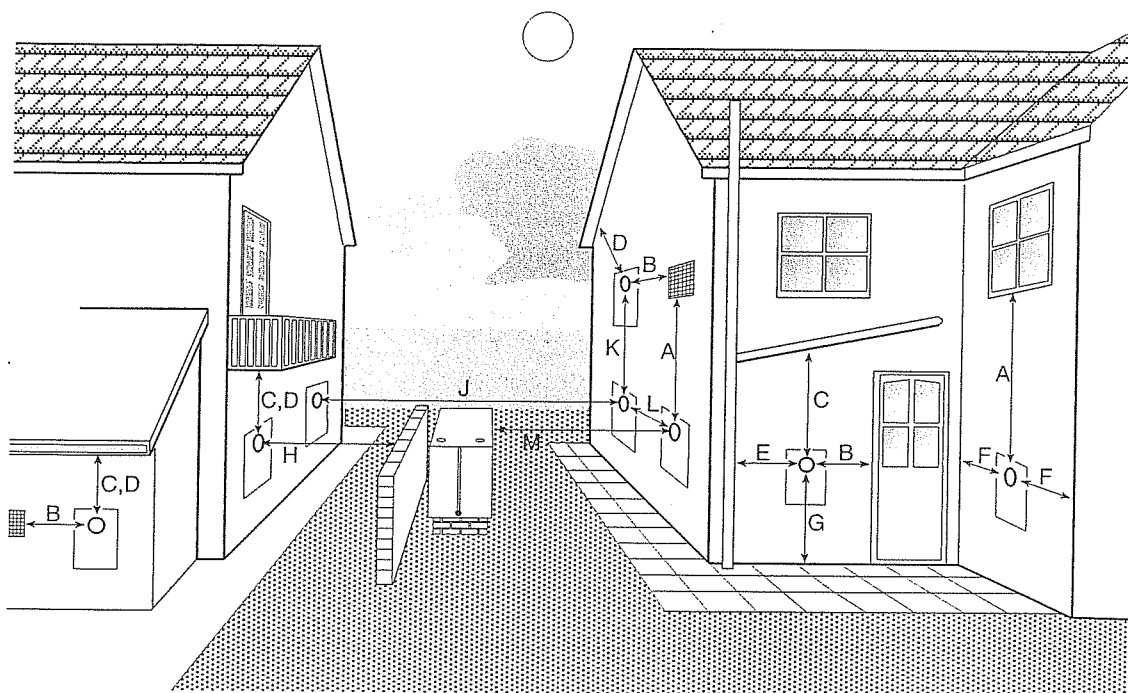
WALL THICKNESS

For a wall thickness below 180mm, either construct stud work on the internal face of the wall or allow the boiler to protrude externally.

ACCESSORIES

Oil filter	1/4" BSP paper element type	Pt. No. BS072
Stainless steel flue guard		Pt. No. 12/24G
Wall duct extension kits		
	12/14 x 50mm	Pt. No. 12/14X50
	12/14 x 100mm	Pt. No. 12/14X100
	15/19 x 50mm	Pt. No. 15/19X50
	15/19 x 100mm	Pt. No. 15/19X100
	20/24 x 50mm	Pt. No. 20/24X50
	20/24 x 100mm	Pt. No. 20/24X100

FLUE TERMINATING POSITIONS



A	Directly below an opening. (air brick, window, etc.)	600
B	Horizontally to an opening. (air brick, window, door, etc.)	600
C	Below a gutter, eaves or balcony with protection (note 2)	75
D	Below a gutter, eaves or balcony with out protection	600
E	From vertical sanitary pipework	300
F	From an internal or external corner	300
G	Above ground or balcony level	300
H	From a surface or boundary facing the terminal	600
J	From a terminal facing a terminal	1200
K	Vertical from a terminal on the same wall	1500
L	Horizontally from a terminal on the same wall	750
M	From an oil tank	1800

Information from BS5410: Part 1: 1997

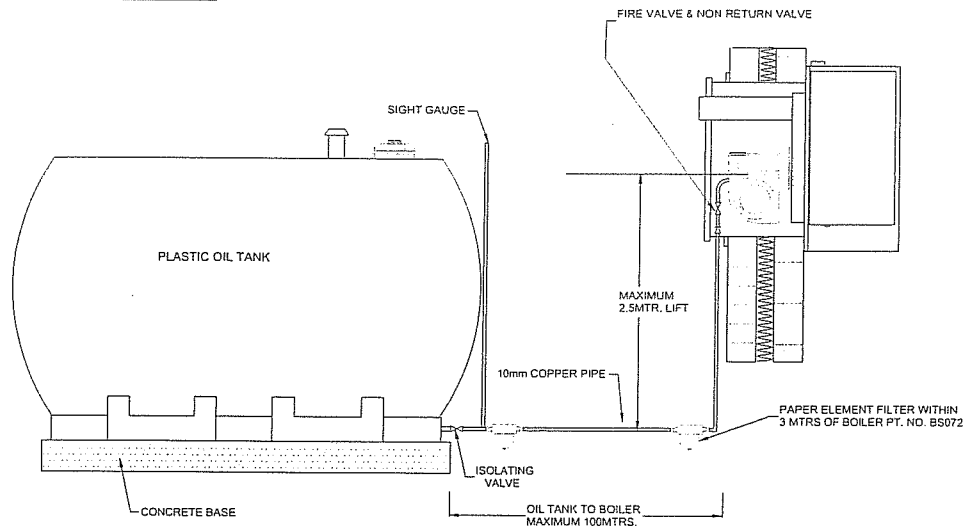
Note 1. Terminals should be positioned so as to avoid products of combustion accumulating in stagnant pockets around the building or entering into buildings.

Note 2 Where a flue is terminated less than 600mm away from a projection above it and the projection consists of plastics or has a combustible or painted surface, then a shield of at least 750mm should be fitted to protect these surfaces.

Note 3 If the lowest part of the terminal is less than 2m above the ground, balcony, flat roof or other place to which any person has access, the terminal should be protected by a guard.

Note 4 Where a flue terminates near the boundary of an adjoining property, consideration should be given to possible noise disturbance as some people are sensitive to even low noise levels.

FUEL SUPPLY SYSTEM



Oil tank

We recommend the use of plastic oil tanks, they require less maintenance than steel tanks and are longer lasting.

A concrete base 100mm high is sufficient support for the tank, alternatively use paving slabs of 42mm thickness. Ensure enough clearance is provided to allow removal of the oil filter bowl.

OIL SUPPLY

Fuel tank below the burner

The fuel pump can lift fuel to a height of 2.5 metres, A two pipe system or a deaerator (Tiger loop, 3 K or similar) is not required. For heights above 2.5 metres, please consult our technical department.

Pipework

Soldered fittings should not be used, the joints will fail in the event of fire, flux deposits may damage the pump also fuel may deteriorate the solder within the joint.

Galvanised pipe and fittings must not be used, the aggressive action of the fuel will erode the zinc and damage the fuel pump.

Keep the number of pipe joints to a minimum, form bends rather than use compression fittings.

Jointing compounds

Jointing compounds should be used with care, excessive amounts can causing blockages, fragments may cause failure of the fuel pump or the non-return-valve; we recommend the use of a non-setting liquid pipe sealant.

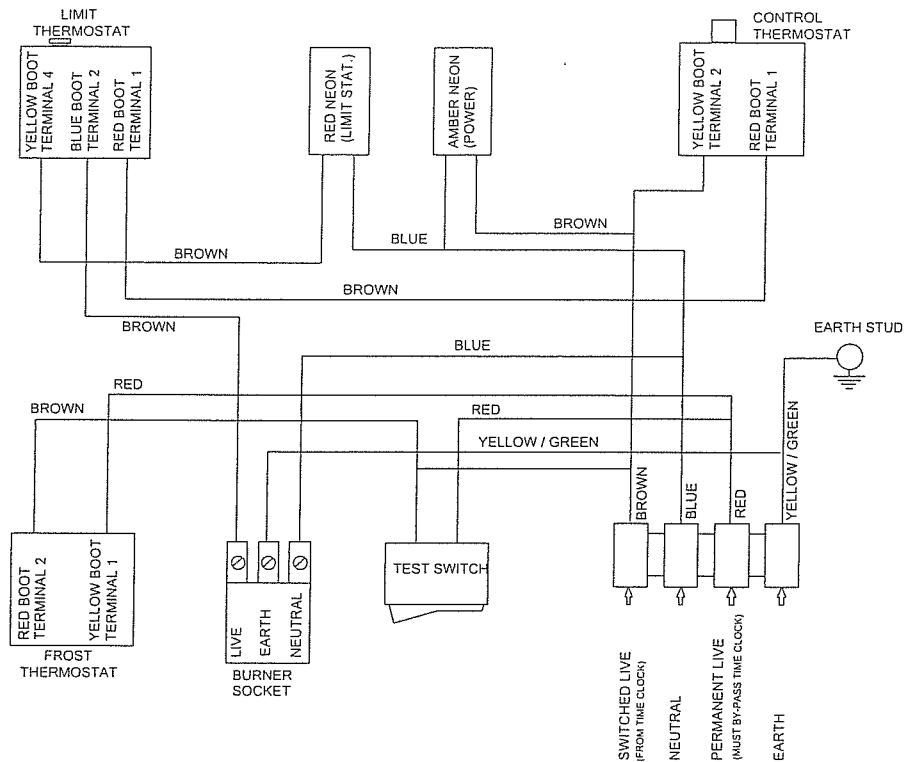
Fire valve

A fire valve with a fusible hand wheel is supplied with the boiler, a remote acting fire valve is unnecessary with this design of boiler as oil does not enter the property.

Oil filtration

A paper element filter must be installed within 3 meters of the boiler (1/4" filter Pt No. BS072). Paper element filters have high filtration rates (12 microns), gauze strainers which are commonly used, have a filtration rate of 100 microns, they do not provide the best protection for the highly tolerated components within the burner, and may lead to the premature failure of burner components. Where a steel oil tank is installed we recommend a paper element filter is also fitted adjacent to the oil tank.

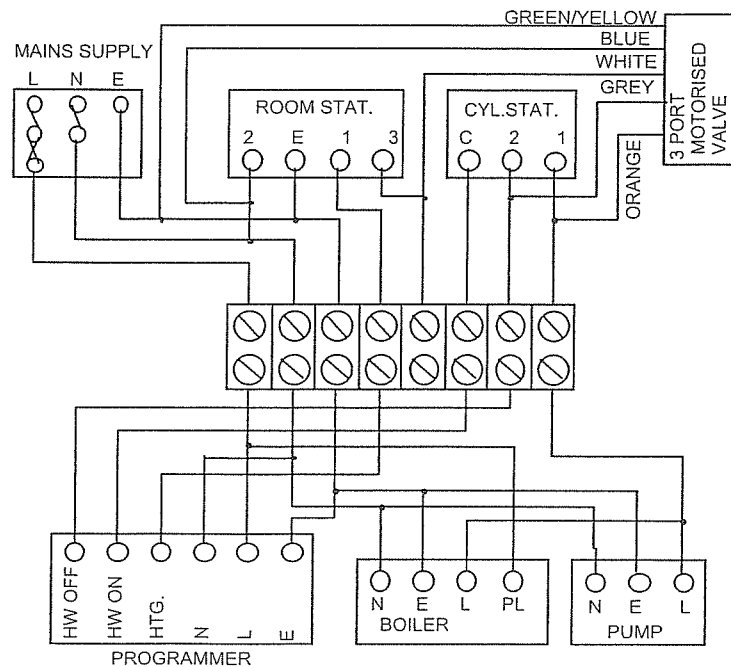
ELECTRICAL CONNECTIONS



The electrical supply to the boiler should be made via a switched and fused spur located near the boiler, fitted with a 5-amp fuse.

A frost thermostat is fitted, as standard to protect the boiler, where appropriate an additional frost thermostat may be required to protect the rest of the heating system.

HONEYWELL Y-PLAN FULLY PUMPED SYSTEM



FULLY PUMPED Y-PLAN HEATING SYSTEM

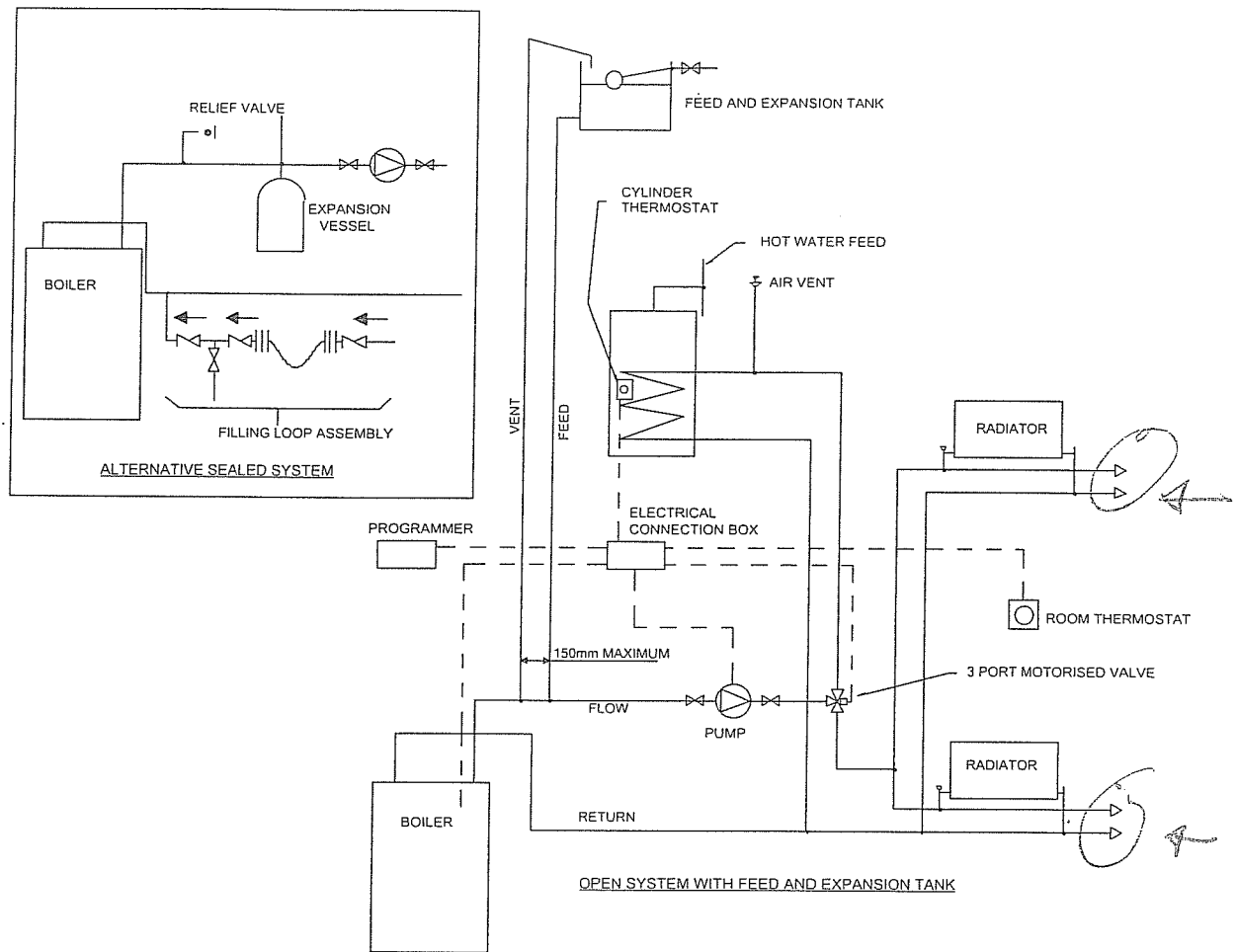
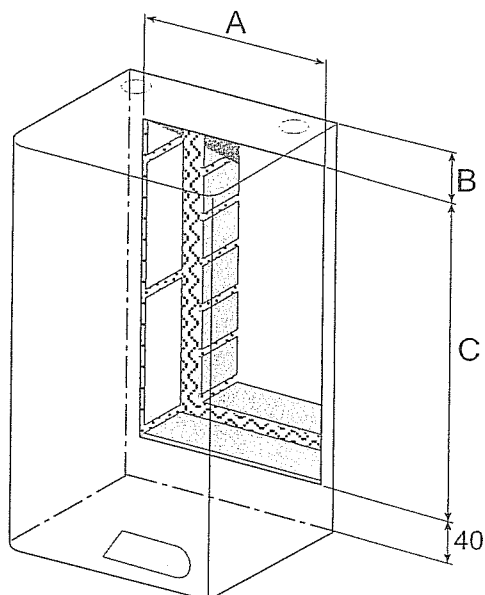


Diagram shows a general arrangement only; there are many alternative systems. Sealed system components are available in the form of a kit from your plumber's merchant.

INSTALLATION PROCEDURE

Unpack the boiler, remove the burner and silencer box from the heat exchanger.



1. CUT A HOLE IN THE WALL

Dimension	A	B	C
12/14	350	40	520
15/19	380	100	560
20/24	410	105	600

Hole sizes stated allow for a 10mm clearance around the wall duct.

Note

12/14 models allow 120mm clearance above the casing for removal of the thermostat phials.

15/19 and 20/24 models, allow 75mm clearance above the casing, for access to the case retaining screws.

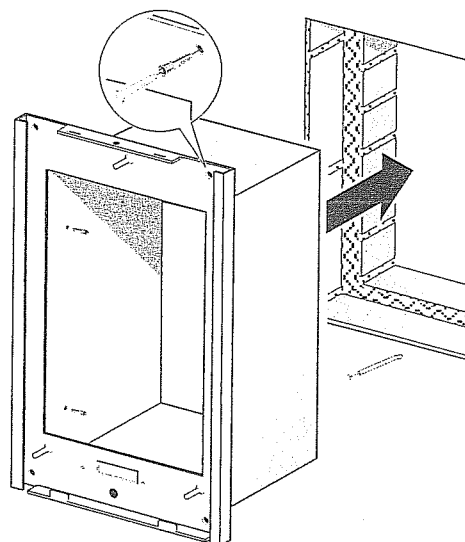
2. WALL PLATE AND DUCT ASSEMBLY

Drill through the holes in the wall plate and wall duct, secure the assembly to the wall using the eight wall plugs and screws provided.

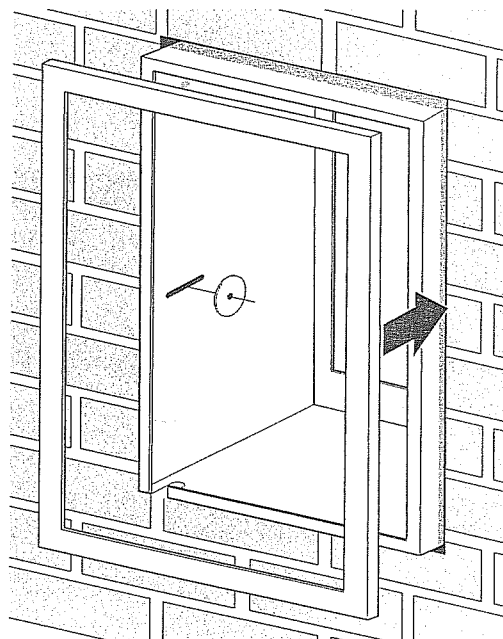
Note.

1. Hole positions vary according to model.

2. If the wall is uneven, avoid distortion of the wall plate, place packing behind the wall plate, ensure the rubber foam on the rear of the wall plate forms an air tight seal against the wall, use silicone sealant to fill any gaps.

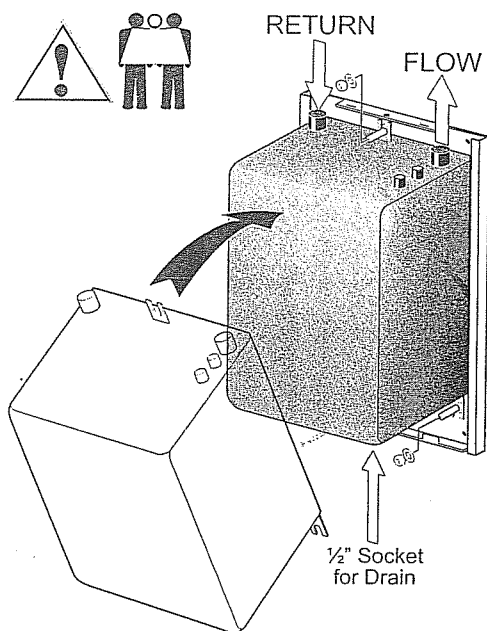


3. WALL DUCT TRIM



Secure the trim with the blanking discs and screws provided.

4. HEAT EXCHANGER



Fit 1" BSP pipe fittings to the flow and return sockets and a drain cock to the 1/2" BSP socket.

Lift the heat exchanger into position, secure with nuts and washers provided.

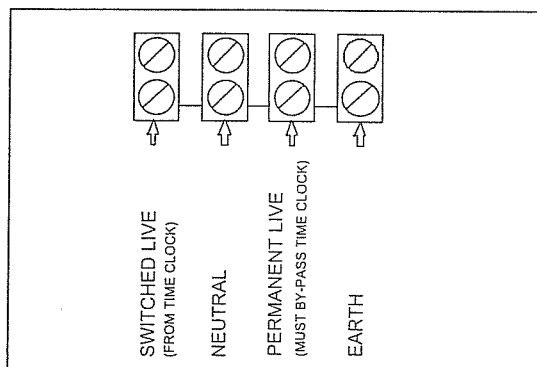
Safety: the heat exchanger is heavy two people will be required to lift it into position.

5. CONTROL PANEL

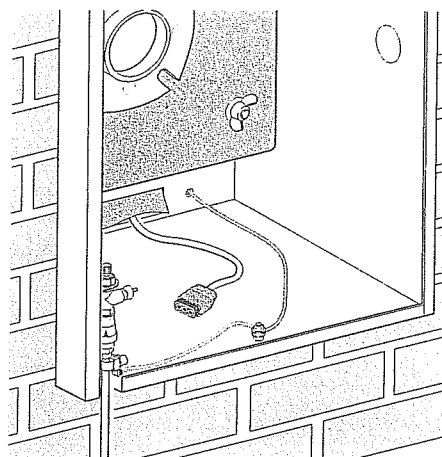
Fit the control panel onto the wall plate and place the thermostat phials into their pockets.

Safety. Ensure the thermostat capillary tubes are kept clear of any possible electrical contact on the control panel.

6. ELECTRICAL CONNECTIONS



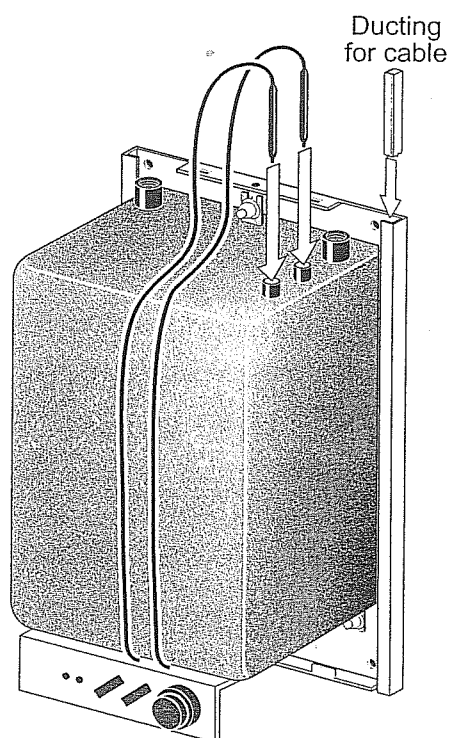
A 20mm hole is provided in the wall plate for concealed cable entry, alternatively use plastic ducting to any corner of the wall plate



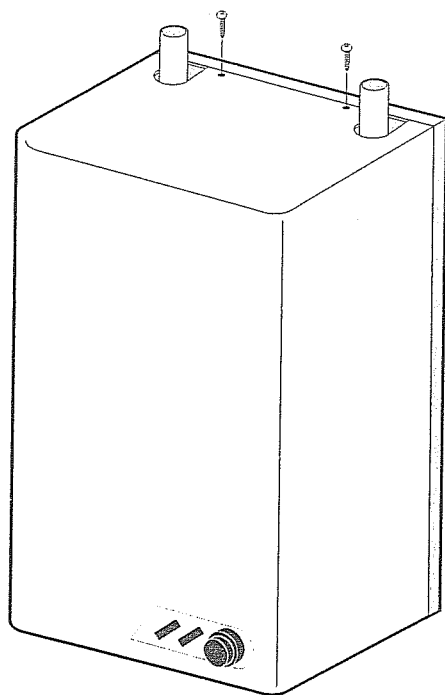
The earth bonding cable can be passed through an 8mm hole, adjacent to the test switch, and secured to the 6mm stud provided in the wall duct.

Note

The power supply to the boiler should be fitted with a 5 amp fuse.

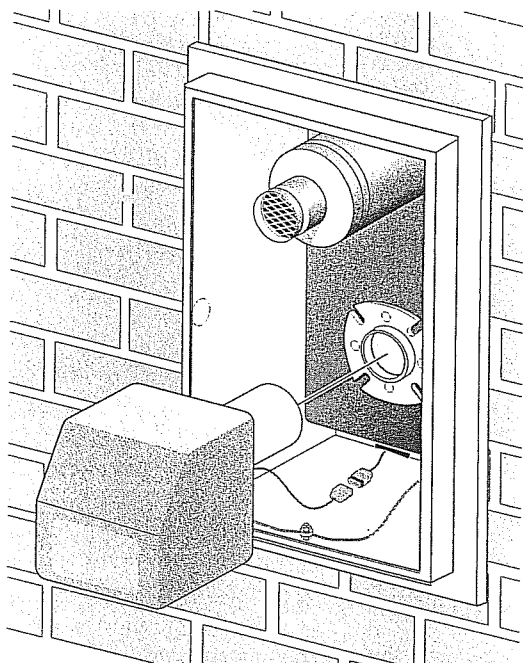


7. FIT THE WHITE CASING



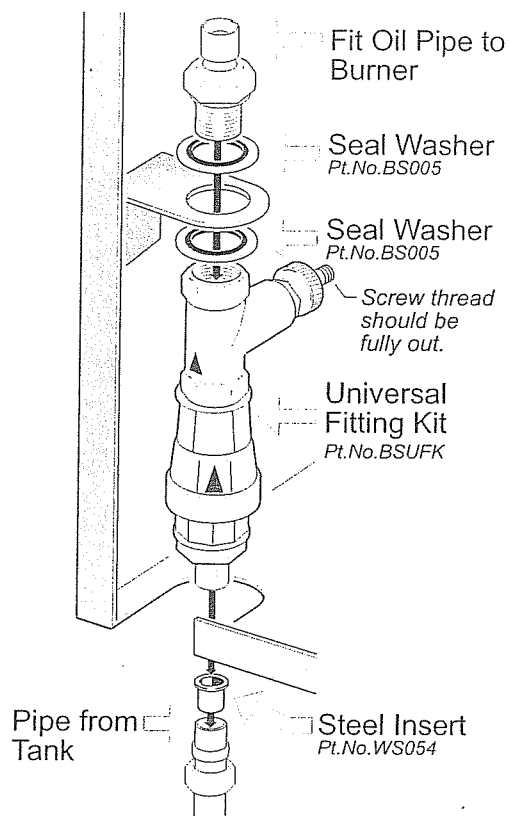
Lift the cover into position, ensure the tabs and slots are aligned, tighten the retaining screws.

8. SILENCER BOX AND BURNER



Fit the silencer box and burner. Connect the 3-pin plug and socket.

9. CONNECT THE FUEL LINE



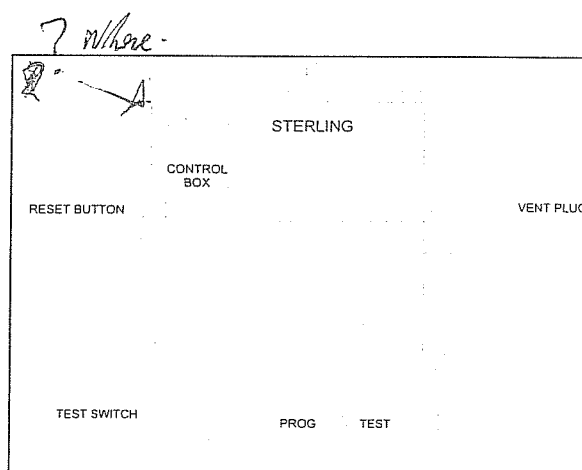
Assemble the non-return and fire valve assembly as detailed.

Fit a paper element filter, gauze strainers commonly used do not provide adequate protection. (1/4" filter Pt. No.BS072)

Do not use soldered or galvanised fittings.

Please refer to page 11 of the handbook for oil tank installation recommendations.

10. PRIMING THE BURNER



Ensure both power and fuel supplies to the boiler are switched on. Press the reset button, the burner will start its firing sequence, to release air from the oil line slacken the vent plug during this period. If ignition fails the burner will go to lockout, wait 60 seconds and repeat the procedure.

11. TEST THE FUEL SUPPLY

1. With the burner running check the fuel supply for air leaks. A continuous stream of bubbles through the oil line indicates that air is being drawn in, this must be cured before proceeding. It is normal for a static air bubble to remain at the highest point of the oil line.
2. Check the operation of the non-return valve. Stop the burner, disconnect the flexible hose at the fuel pump, the fuel level in the hose should not fall.

12. TEST THE TEST SWITCH

1. With the test switch in the PROG (program) position, the burner should only fire when the programmer is switched on.
2. With the programmer switched off, the burner should only fire when the switch is in the TEST position.

Note.

1. In very cold conditions the frost thermostat is activated and will override the test switch in either position
2. The boiler will not fire in either test switch position when the set temperature of the control thermostat is attained.

13.COMMISSIONING THE BOILER

Installation is complete, the boiler must now be commissioned by a competent engineer. A commissioning check list is provided in the rear of the handbook. Please ensure that the **extended guarantee registration** document is completed and returned to HRM Boilers.

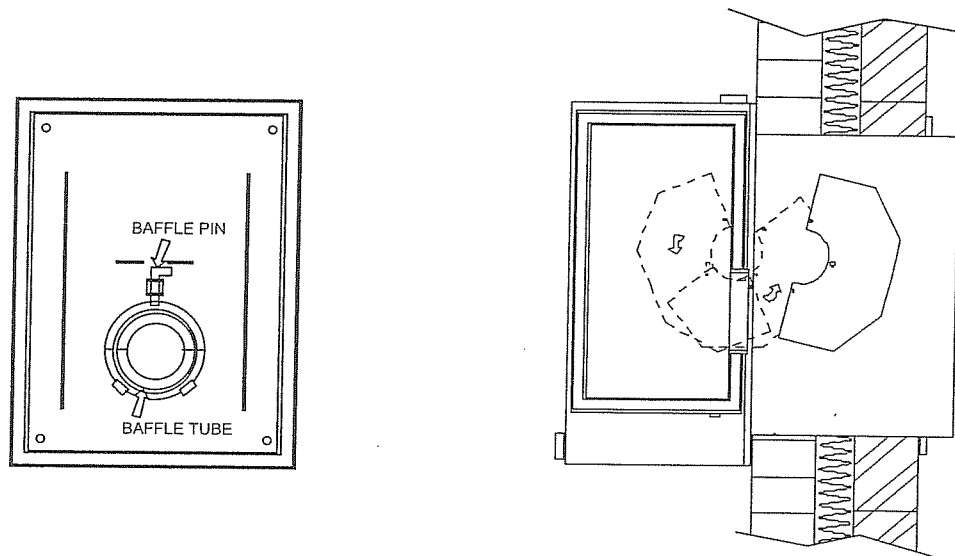
MAINTENANCE

The boiler should be serviced annually, should you experience any difficulty in locating an engineer our service department may be able to provide you with the name of an engineer in your area.

WARNING! ISOLATE THE POWER SUPPLY BEFORE SERVICING THE BOILER

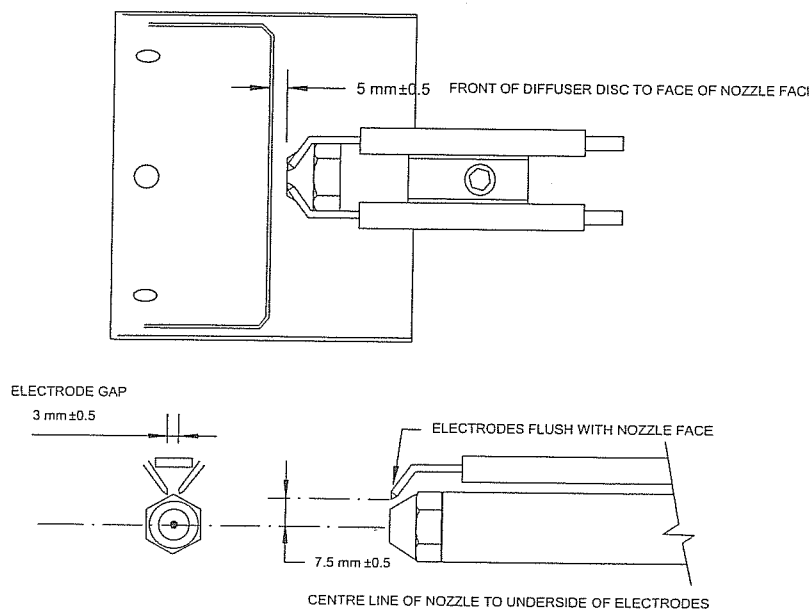
1. Remove the burner and combustion chamber baffles, clean the internal heat exchange surfaces and components.
2. Check and replace seals and gaskets as appropriate.
3. Clean / replace filter elements and de-sludge the oil tank.
4. Dismantle the burner assembly and clean, fit a new nozzle.
5. Check the oil pressure and flue gas analysis, adjust the burner settings as appropriate.

BAFFLE REMOVAL

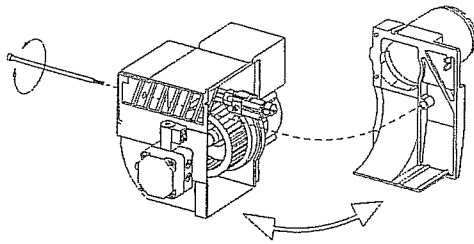


Remove the baffle tube and baffle pin, place baffles inside the heat exchanger and remove as shown.

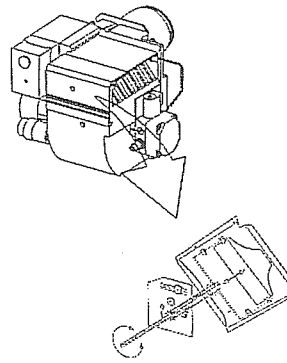
BURNER HEAD SETTINGS



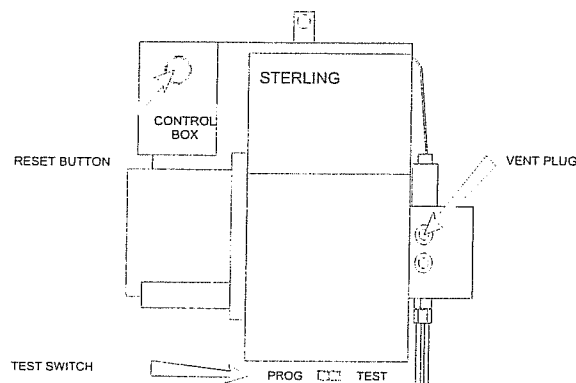
DISMANTLE THE BURNER



AIR ADJUSTMENT

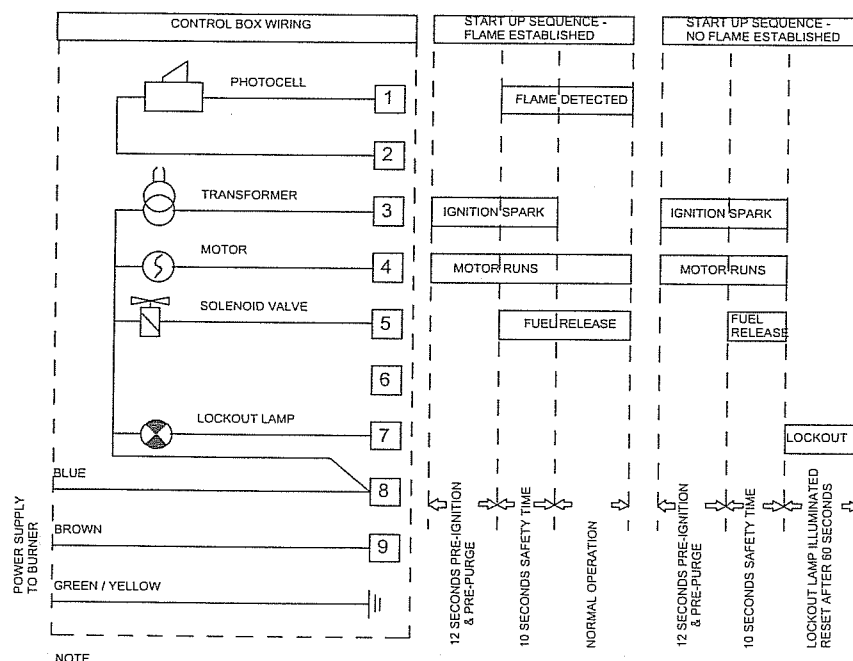


PRIMING THE BURNER

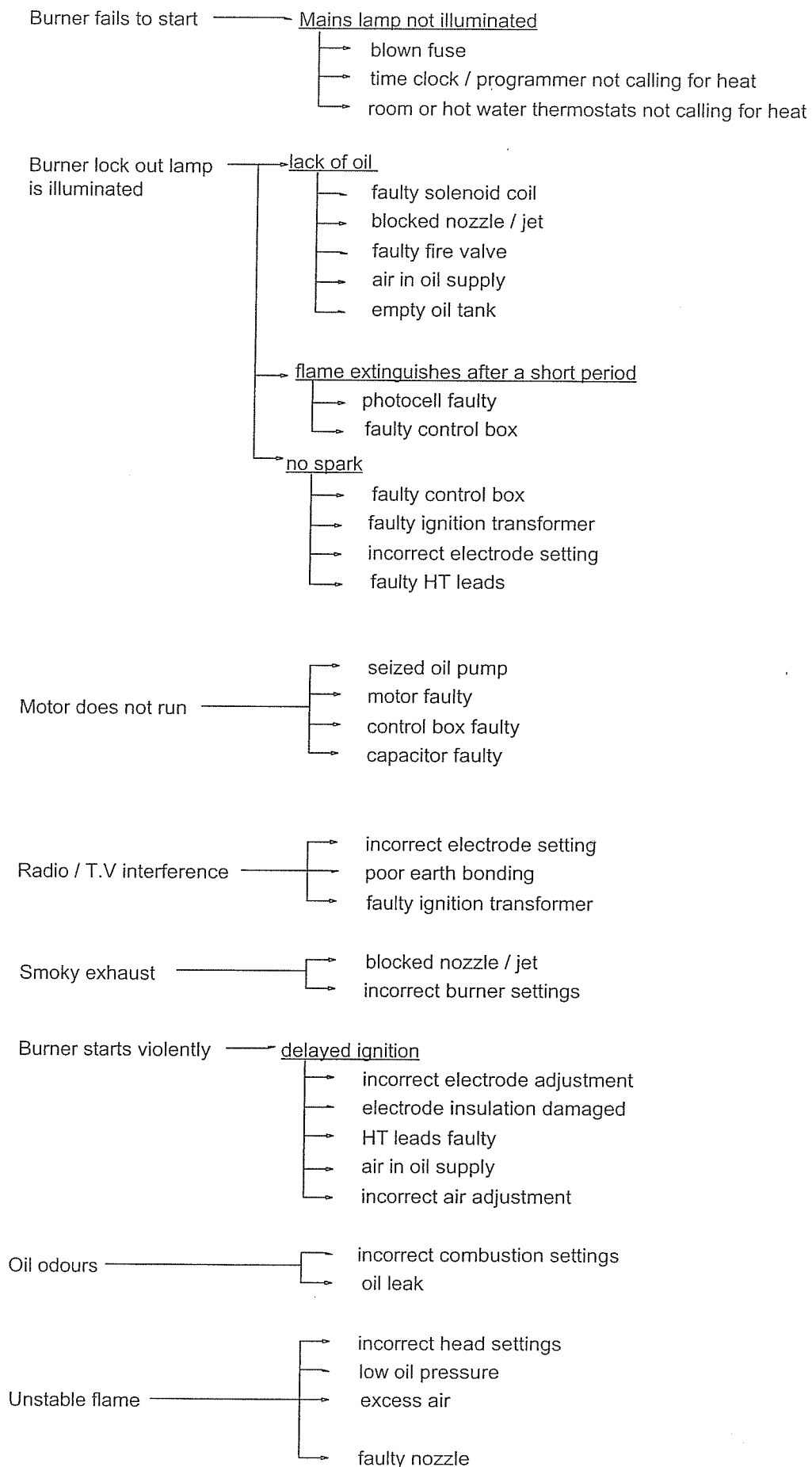


Ensure both power and fuel supplies to the boiler are switched on. Press the reset button, the burner will start its firing sequence, to release air from the oil line slacken the vent plug during this period. If ignition fails the burner will go to lockout, wait 60 seconds and repeat the procedure.

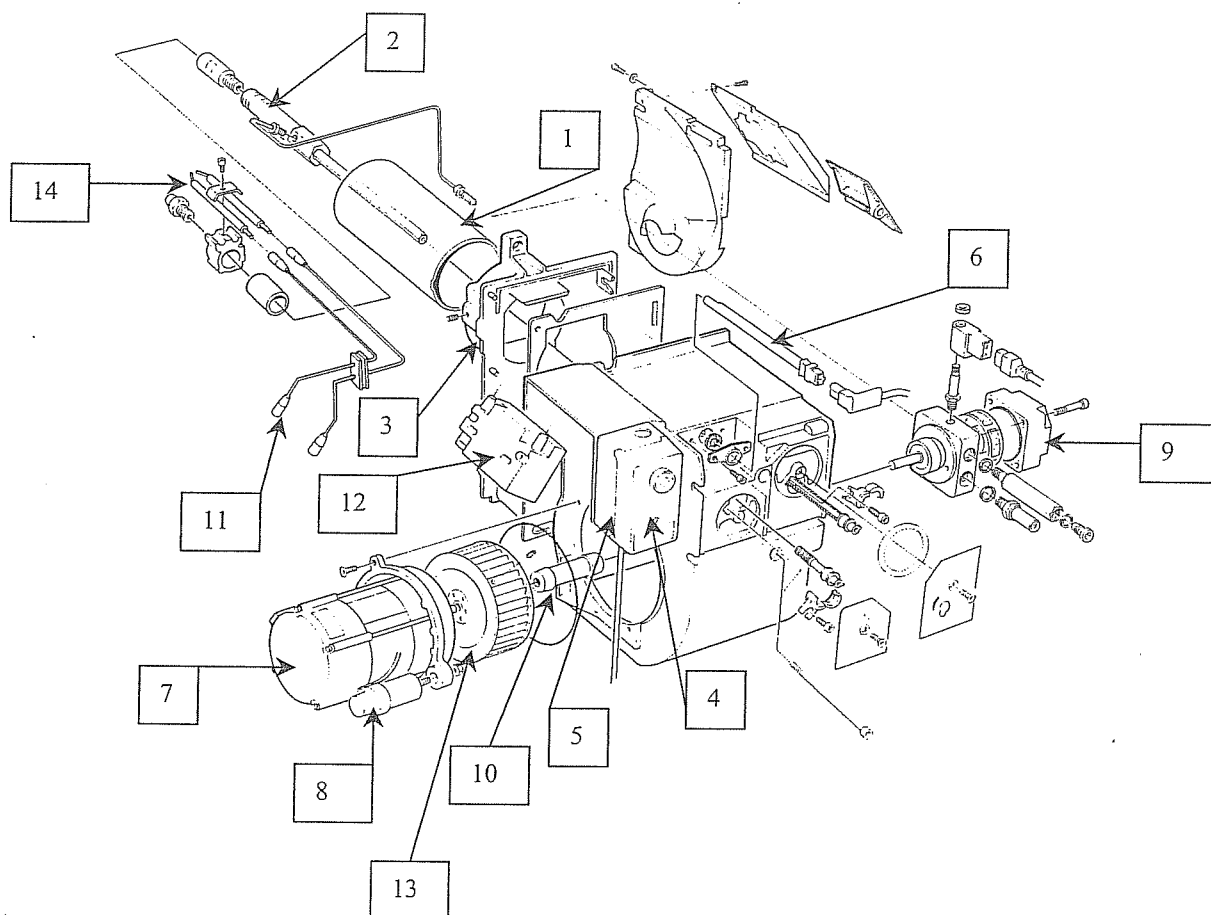
CONTROL BOX PROGRAMME SEQUENCE FOR THE SATRONIC TF 832.3



FAULT DIAGNOSIS

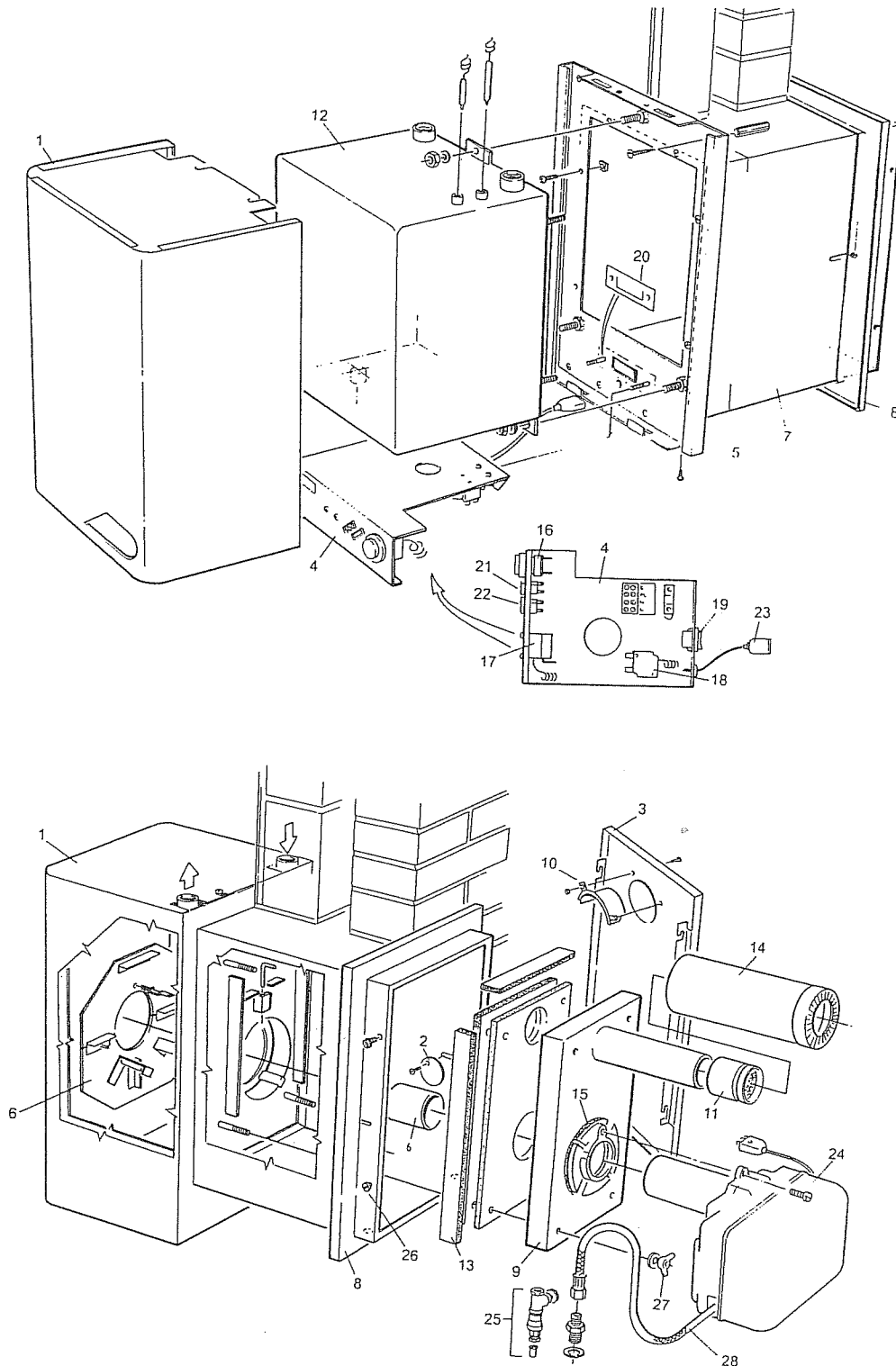


PARTS LISTS - STERLING BURNER



ITEM	DESCRIPTION	EOGB REF.	PART No.
1	Blast Tube 20/24	B03-960-D0212	BS045
1	Blast Tube 12/14 – 15/19	B03-177-80109	BS013
2	Nozzle Assembly	118-538-01	BS046
3	Intermediate Gasket	04-390-120-27	BS047
4	Satronic Control Box	TF832.3	BS021
5	Control Box Base	390-109-01	BS022
6	Photocell MZ770S	118-00301	BS065
7	Motor	118-483-02	BS050
8	Capacitor	118-95201	BS051
9	Danfoss Pump BFP11 L3	117-586-02	BS052
10	Pump Coupling	CO-1-00-115-94201	BS064
11	HT Lead	118-55901	BS054
12	Transformer EB1	115-977-01	BS055
13	Fan 12/14,15/19,20/24	114-176-04	BS056
14	Ignition electrode (new style one piece)	113-867-01	BS067
15	Flexible oil line (clear) (not shown)		BS012

BOILER PARTS LIST



ITEM	DESCRIPTION	QTY.	12/14	15/19	20/24
1	White casing	1	WA001	WA060	WA026
2	Blanking disc	2	WA002	WA002	WA002
3	Access door	1	WA003	WA061	WA027
4	Control panel	1	WA004	WA004	WA004
5	Wall plate	1	WA005	WA063	WA029
6	Baffle set	1	WA006	WA064	WA030
7	Wall duct 410-485mm	1	WA007C	WA065C	WA033A
7	Wall duct 260-310mm	1	WA007B	WA065B	WA031B
7	Wall duct 180-230mm	1	WA007A	WA065A	N/A
8	Wall duct trim	1	WA008	WA066	WA032
9	Silencer box 410-485mm	1	WA009C	WA067C	WA033B
9	Silencer box 260-310mm	1	WA009B	WA067B	WA033A
9	Silencer box 180-230mm	1	WA009A	WA067A	N/A
10	Rain hood	1	WA010	WA010	WA023
11	Flue terminal	1	WA011	WA011	WA022
12	Heat exchanger assembly	1	WA012	WA070	WA043
13	Silencer box lining	1	WA013	WA071	WA021
14	Flue insulation & end cap	1	IN011	IN011	IN008
15	Burner flange gasket (not shown)	1	WA015	WA015	WA015
16	Control thermostat	1	EL005	EL005	EL005
17	High limit thermostat	1	EL006	EL006	EL006
18	Frost thermostat	1	EL010	EL010	EL010
19	Test switch	1	EL007	EL007	EL007
20	Switch gasket (not shown)	1	WA014	WA014	WA014
21	Amber neon	1	EL003	EL003	EL003
22	Red neon	1	EL004	EL004	EL004
23	Burner plug and socket	1	EL002	EL002	EL002
24	Burner assembly	1	WA12/14	WA15/19	WA20/24
25	Universal fitting kit	1	BSU FK	BSU FK	BSU FK
26	Access door screws	4	FSM612PHSS	FSM612PHSS	FSM612PHSS
27	Silencer box wing nuts	4	FSM8WNZP	FSM8WNZP	FSM8WNZP
28	Clear flexible hose	1	BS012	BS012	BS012

INSTALLATION AND COMMISSIONING CHECK LIST

IMPORTANT: Your guarantee will become null and void if your boiler is not commissioned.

OIL SUPPLY

- Is the tank supported on a suitable base? _____
- Is an oil level gauge fitted? _____
- Are stop valves fitted, adjacent to the oil tank and the boiler? _____
- Are filters fitted, adjacent to the oil tank and the boiler? _____
- Is at least one of the filters of the paper element type? _____
- Is a remote acting fire valve fitted? _____
- Check that no soldered fittings have been used _____
- Check that no galvanised fittings have been used _____

ELECTRICAL

- Is there a double pole isolation switch adjacent to the boiler? _____
- Is a 5-amp fuse fitted to the power supply? _____

BOILER

- Are the thermostat phials in their pockets? _____
- Are the heat exchanger baffles in position? _____

WATER

- Has the system been flushed with a chemical cleaner? _____
- Has a corrosion inhibitor been added to the system? _____

COMBUSTION TEST RESULTS

Oil pressure = _____ Smoke no. = _____ CO² % = _____ Flue gas temperature = _____

HANDING OVER TO THE HOUSEHOLDER

- Explain the boiler controls. _____
- Explain the operation and setting of the programmer or time switch. _____
- Explain the operation of the oil level gauge. _____
- Complete the guarantee document. _____

COMMISSIONED BY: Date.....

SERVICE LOG

Service engineer's name Tel. No.

Date	Parts replaced	Comments / parts to be replaced next service



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