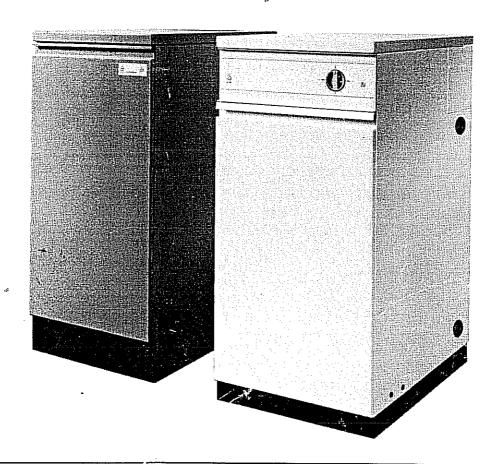
TRIANCO EuroStar

OIL FIRED CENTRAL HEATING BOILERS
FOR BALANCED OR CONVENTIONAL FLUE



USER, INSTALLATION COMMISSIONING & SERVICING INSTRUCTIONS

Standard & Boiler-House Models

EuroStar 40-50

EuroStar 50-60

EuroStar 60-70

EuroStar 70-90

To be retained by householder

HEALTH AND SAFETY

INFORMATION FOR THE INSTALLER AND SERVICE ENGINEERS

Under the Consumer Protection Act 1987 and the Health and Safety at Work Act 1974, it is a requirement to provide information on substances hazardous to health (COSSH Regulations 1988).

The Company takes every reasonable care to ensure that these products are designed and constructed to meet these general safety requirements, when properly used and installed.

To fulfil this requirement products are comprehensively tested and examined before despatch.

This appliance may contain some of the items below.

When working on the appliance it is the Users/Engineers responsibility to ensure that any necessary personal protective clothing or equipment is worn appropriate to parts that could be considered as being hazardous to health and safety.

INSULATION AND SEALS

Glass Rope, Mineral Wood, Insulation Pads, Ceramic Fibre, Glass Insulation.

May be harmful if inhaled. May be irritating to the skin, eyes, nose or throat. When handling avoid inhalation and contact with eyes. Use (disposable) gloves, face masks and eye protection.

After handling wash hands and other exposed parts. When disposing, reduce dust with water spray, ensure parts are securely wrapped.

GLUES, SEALANTS & PAINT

Glues, Sealants and Paints are used in the product and present no known hazards when used in the manner for which they are intended.

KEROSENE & GAS OIL FUELS (MINERAL OILS)

- 1. The effect of mineral oils on the skin vary according to the duration of exposure.
- The lighter fractions also remove the protective grease normally present on the surface of the skin rendering the skin dry, liable to crack and more prone to damage caused by cuts and abrasions.
- 3. Skin rashes (oil acne). Seek immediate medical attention for any rash, wart or sore developing on any part of the body, particularly the scrotum.
- 4. Avoid as far as possible any skin contact with mineral oil or with clothing contaminated with mineral oil.
- 5. Never breath any mineral oil vapours. Do not fire the Burner in the open i.e. out of the Boiler as a misfire will cause unburnt oil vapours.
- 6. Barrier cream containing lanolin such as Rosalex Antisolv, is highly recommended together with a strict routine of personal cleaning.
- 7. Under no circumstances should mineral oils be taken internally.

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HOW TO USE YOUR TRIANCO BOILER

The Trianco EuroStar has been designed and constructed to give years of trouble free service and these instructions are provided to assist you in obtaining the best performance with the least trouble and cost.

The boiler is fully automatic in operation and requires little attention other than the setting of the thermostat and any system controls such as a room thermostat and time-switch.

TO FIRE THE BOILER

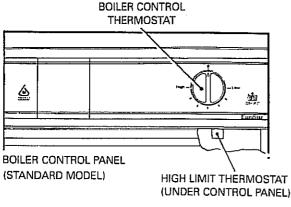
Before firing the boiler, ensure the system is full of water, there is sufficient oil in the storage tank and all valves are open.

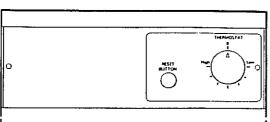
- Check that the Time-switch/Programmer (if fitted) is ON and the room thermostat is calling for heat.
- 2. Set the boiler thermostat to the desired temperature.
- Switch on the electrical supply to the boiler and the burner should fire after a few seconds of fan prepurge.
- 4. Set the Time-switch/Programmer (if fitted) to the times and programme required.
- The boiler will how operate automatically, cutting in and out according to the heat demand.

TO STOP THE BURNER

The burner may be stopped by turning the Boiler Control Thermostat fully anti-clockwise to the OFF position '0'.

If the boiler is to be off for a long time, it is recommended that the mains supply to the boiler is switched off or the Time-switch/Programmer (if fitted) is switched to the OFF position.





BOILER CONTROL PANEL (BOILER HOUSE MODEL)
(FRONT COVER REMOVED)

BOILER CONTROL THERMOSTAT

The boiler control thermostat enables you to select the temperature of the water leaving the boiler. It is calibrated between High and Low in five intermediate settings, corresponding to a temperature range of 82°C (high) to 55°C (low).

Set the thermostat by turning the knob to the required temperature, typically:

Setting 5 (75°C) for Winter Heating and Hot Water Setting 2 (65°C) for Summer Hot Water only

It is recommended the thermostat is not operated below Setting 1 (60°C) otherwise condensation could occur within the boiler.

The thermostat is switched off when the knob is turned fully anti-clockwise with pointer opposite '0'.

HIGH LIMIT THERMOSTAT (Hand Reset)

The high limit thermostat is factory set and requires no adjustment. Should the boiler thermostat malfunction, the limit thermostat will take over and shut down the boiler.

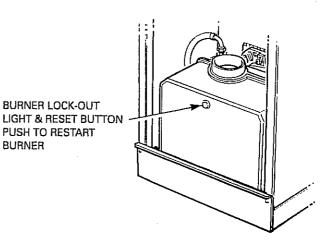
If the limit thermostat operates frequently, consult your Service Engineer as there may be a fault in the system.

To reset the limit thermostat, remove the front panel and push in button.

Note: The limit thermostat can only be reset when the water temperature has dropped at least 20°C.

BURNER LOCK-OUT

If the burner fails to light, it will go to lock-out. If this occurs, wait about one minute then remove the front panel and press illuminated reset button to start burner.



programmer part no

1

2265 (NEW PANE)

205 (70月0萬

(110-130)

In the event of the burner not firing, wait a further minute and then press the reset button again. If the burner still fails to start, switch off the electrical supply to the boiler.

WARNING -- DO NOT ATTEMPT TO START BURNER MORE THAN TWICE.

(See 'Simple Fault Finding' before contacting your Service Engineer).

SYSTEM CONTROLS

ROOM THERMOSTAT

The room thermostat should not be positioned near a source of heat such as a radiator or exposed to the sun as this will cause the central heating to switch off before the room is up to temperature. Follow the manufacturer's instructions for best siting position for the thermostat.

TIME-SWITCH/PROGRAMMER

When choosing the operating times for your boiler, it is useful to remember that central heating usually takes between half an hour to an hour before it becomes effective.

It is suggested that the Time-Switch/Programmer is set to bring on the heating about an hour before heating is required.

It is also worth noting that the heating system will usually remain effective for up to half an hour after boiler shut down. The timer can therefore be switched off earlier as an economy measure.

FROST PROTECTION

If the boiler and central heating is shut down for many hours during very cold weather, the water may be in danger of freezing and, as such, it is advisable to protect the installation with a frost thermostat.

Where the system is not protected, the boiler should be left switched on and the room thermostat set to a low setting e.g. 7°C (45°F) to prevent the building temperature falling too low.

If the system is shut down for a long period during very cold weather, it is advisable to completely drain the system. However, frequent draining should be avoided, especially in hard water areas, as this could lead to scaling of the boiler waterways.

SHUTTING DOWN FOR THE SUMMER

If the boiler is shut down for the summer months, it is advisable to have it serviced and thoroughly cleaned as soon as possible to minimise corrosion of the heating surfaces.

OIL

The recommended oil for your boiler is 28 sec. Kerosene (BS 2869 : 1983 Class C2).

Oil Tank

Always ensure the tank is topped up at regular intervals, do not wait until the tank is nearly empty before refilling, otherwise sludge and water could be sucked into the oil pipe to affect the burner's operation and reduce pump life.

After a delivery of oil, it is recommended that the oil is allowed to settle in the tank for about half an hour before restarting the burner.

Sludge and water caused by condensation should be drawn off at the tank drain-cock annually.

SIMPLE FAULT FINDING

If the burner fails to start for no apparent reason, make the following checks before calling your Service Engineer.

- Check for failure in the electrical supply e.g. a power cut.
- Check for a blown fuse. If the fuse has blown and on replacement blows again, switch off the mains electrical supply to boiler and call your Service Engineer.
- Check that there is adequate oil in the tank and the shut-off valves are open.
- Check for burner lock-out. Press the reset button and burner should fire. DO NOT PRESS MORE THAN TWICE. Refer to 'Burner lock-out' for further advice.
- Check for excess water temperature (Refer to 'High Limit Thermostat' for advice).

Note: If the boiler has been off as a result of a power failure, it will be necessary to re-set the Time-Switch/Programmer to the correct time unless it has a built-in power reserve.

SERVICING

To ensure efficient and reliable operation of the boiler, it is essential that the oil burner is initially commissioned by a qualified engineer and an annual service is given thereafter, preferably by an OFTEC trained and registered engineer.

Notes:

- It is the responsibility of the Installer to ensure proper commissioning is carried out.
- (b) It is a requirement of the boiler's guarantee and any extended warranty that an annual service is carried out by a qualified engineer.

Commissioning Engineer's Signature
Company Name
Address
Tel. No:

2. INTRODUCTION

Trianco EuroStar boilers have been designed and constructed to meet the latest European Standards and the high thermal efficiency requirements of the Boiler (Efficiency) Regulations 1993. They are available in either white cased kitchen models or blue for boiler-house installation

The boilers are supplied suitably equipped for connection to a conventional chimney but they can readily be converted into a room sealed balanced flue appliance by using any of the Trianco Balanced Flue Kits. These kits allow the boiler to be installed in a wide variety of site conditions, from low level discharge through the wall, to high level roof discharge. (See Balanced Flue Kits for details - Section 5).

The matched pressure jet burner which is exceptionally quiet in operation, ensures clean and efficient combustion with low NOx emissions.

As the EuroStar balanced flue boiler is a truly room sealed appliance, it is also eminently suitable for installtaion in a garage.

The EuroStar boilers are suitable for all normal open vented central heating and indirect hot water systems and can also be used with sealed systems up to a working pressure of 3 bar with the appropriate sealed system safety equipment.

Two flow and return sockets are provided to facilitate connection to the heating and hot water systems and additional sockets allow the circulating pump to be fitted inside the boiler casing.

All servicing can be carried out from the front of the boiler, thus allowing the boiler to be fitted under a kitchen work top if required. The front mounted flue-cover permits easy access for the removal of the flue-baffles and cleaning of heating surfaces.

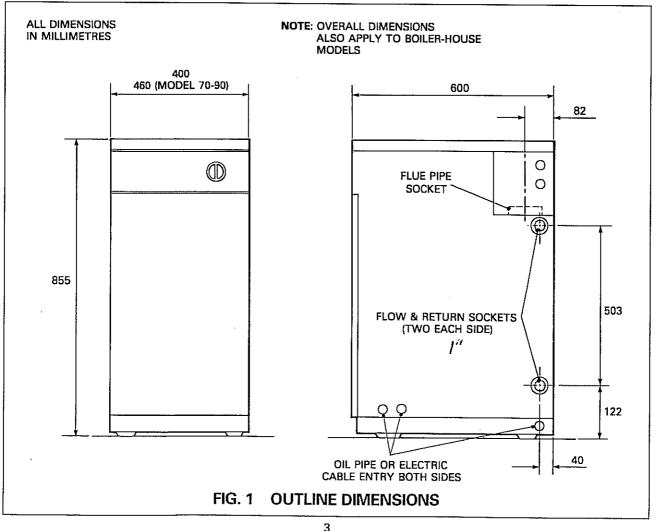
The boiler is fully automatic in operation and incorporate all necessary safety controls to ensure safe and reliable operation.

An electronic 7 day programmer is available as an optional extra.

Trianco EuroStar boilers are supplied with the burner set for Kerosene 28 sec. Class C fuel to meet the Building Regulation requirements for low level flue discharge. It is recommended this fuel is also used when the boiler is connected to a conventional chimney because of the clean burning characteristics of Kerosene.

FOR GRAVITY FEED SYSTEMS BOILER MUST BE CROSSFLOWED

3. TECHNICAL INFORMATION



Technical Specification	EuroStar	40/50	89.1 %	Nett
	11	50/60	89.2 %	Nett
	l 11	60/70	93.2 등	Nett
	11	70/90	90.7 됨	Nett

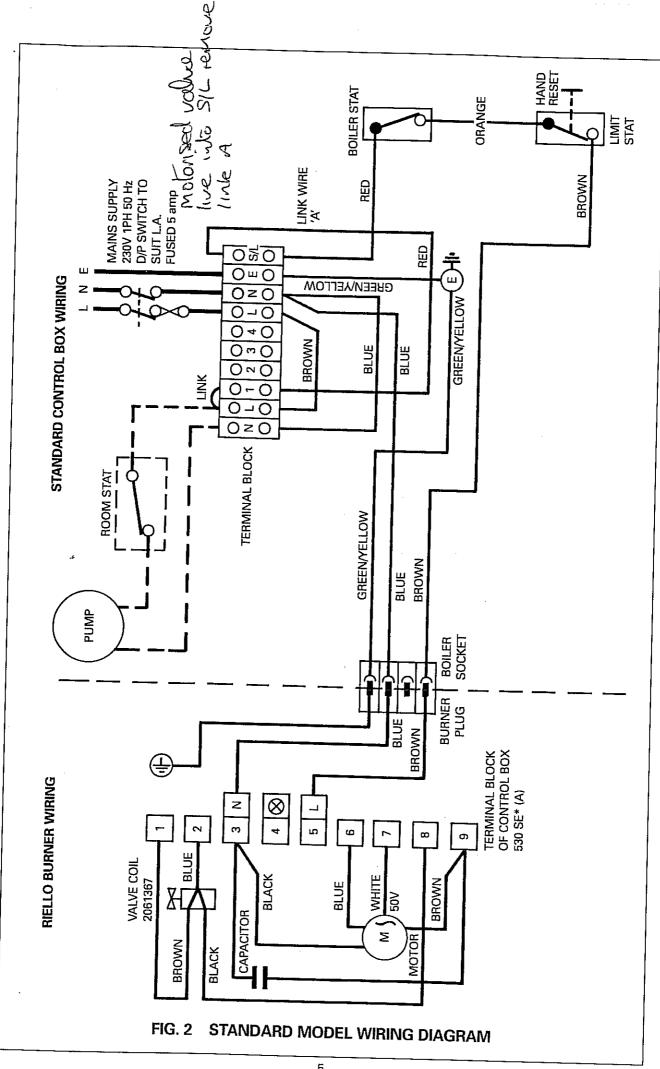
·	7	70/9		90.7 % Net		
EuroStar Boiler Models		40-50	50-60	60-70	70-90	
Rated Input	(Btu/h) (kW)	58,000 17.0	70,000 20.5	75,000 22.0	100,000 29.3	
Rated Output	(Btu/h) (kW)	50,000 14.7	60,000 17.6	70,000 20.5	90,000 26.4	
Riello Oil Burner		G5 BF 35	G5 BF 40	G5 BF 50	G5 BF	
Weight (empty)	(kg) (lb)	91 200	93 205	98 216	102 224	
Water content	(litre) (gal)	12.2 2.7	12.2 2.7	14.8 3.3	18.6 4.1	
Flow & return sockets	(in.)	4 x 1 BSP	4 x 1 BSP	4 x 1 BSP	4 x 1 BSP	
Pump socket	(in.)	¾ BSP	¾ BSP	¾ BSP	¾ BSP	
Flue Socket Dia. (C.F.)	(in.)	4 or 5	4 or 5	4 or 5	4 or 5	
Max. operating pressure	(bar) (psi)	3 43.5	3 43.5	3 43.5	3 43.5	
Test Pressure	(bar) (psi)	4.5 65.3	4.5 65.3	4.5 65.3	4.5 65.3	
Water side resistance 10° diff 20° diff	(mbar) (in. w.g.) (mbar) (in. w.g.)	11 4.4 2.7 1.1	13.3 5.3 3.2 1.3	21.3 8.5 5.2 2.1	25.0 9.7 8.3 3.2	
Control Thermostat	– Adjustable	between 55°C a	ınd 82°C			
Limit Thermostat	– Factory set	at 110°C ± 0/6°	C (hand reset)			
Casing Finish	- Stove enamelled white with coloured facia trim (Standard Model) - Stove enamelled blue (Boiler House Model)					
Thermal Insulation	- Boiler shell insulated with fibre glass					
Option Extras	– Programmer (Standard Model only) Trianco Balanced Flue Kits					

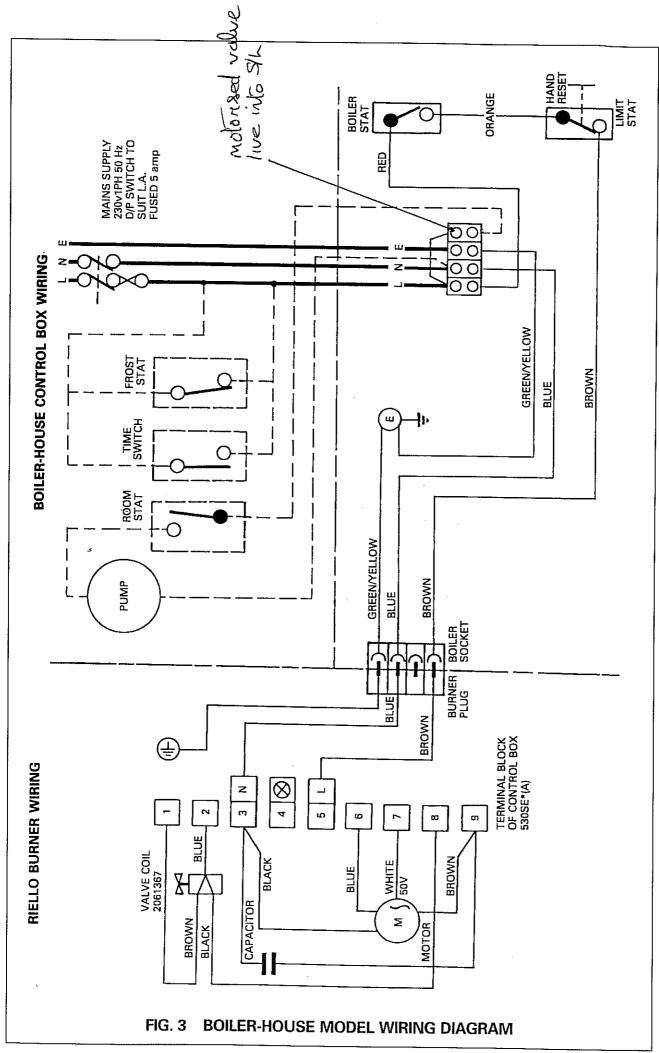
MIN HEAD IM.

MAX

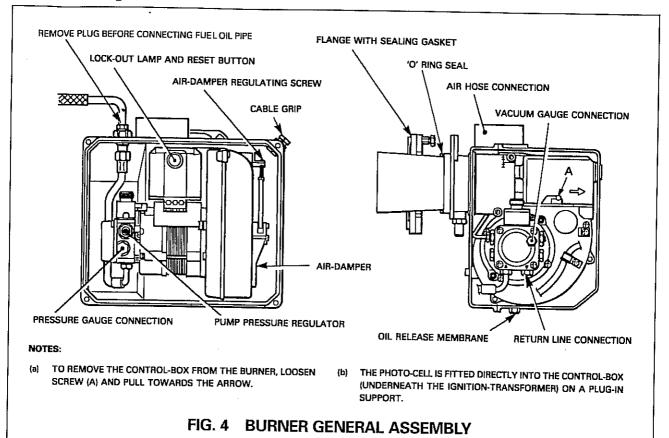
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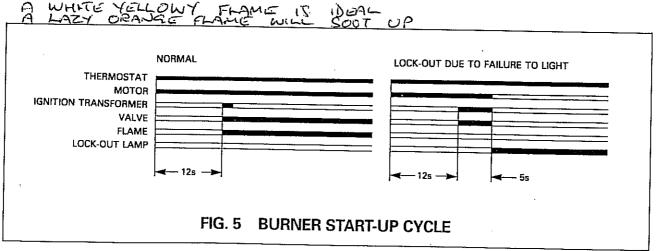
Burner Settings



BURNER SETTINGS

Boiler	Riello Burner Model	Comb. Head	Danfoss Nozzle USG/H	Pump Pressure P.S.I.	Firing Rate ml/min		ir ting	CO ₂ %	Smoke No.	Flue Gas Temp. °C
EUROSTAR						CF	BF			
40-50	G5 BF	206971	0.5 x 80° S	110	30	2.8	3.2	12.3	0	200
EUROSTAR 50-60	G5 BF	206971	0.6 x 80° S	110	35	3.8	4.2	12.4	0	215
EUROSTAR 60-70	G5 BF	206972	0.65 x 80° S	130	41.5	3.8	4.2	12.6	0	215
EUROSTAR 70-90	G5 BF	206973	0.75 x 80° S	120	47	3.6	4.0	12.0	0	200

Note: The EuroStar 70-90 is factory set for a mid output of 80,000 Btu/h. If the maximum output of 90,000 Btu/h is required, increase pump pressure to 150 psi and open air damper to 4.5.

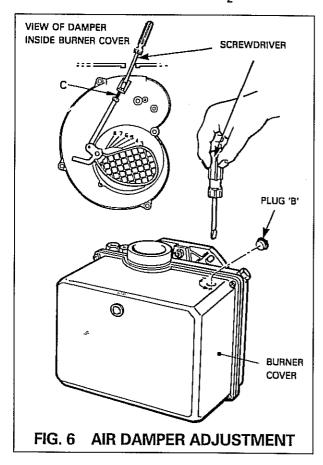


Burner Settings

Air Damper Settings (Fig. 6)

The air damper is factory set to a nominal position to suit the boiler output. However, adjustment of the damper may be required to achieve the CO₂ level indicated in the Burner Settings table.

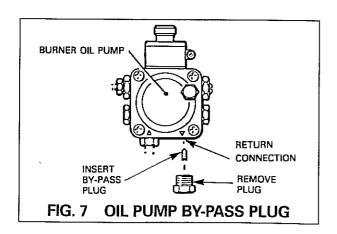
This can be carried out by removing plug B and rotating screw 'C' with a screwdriver, in the positive (+) direction to increase air (for lower CO_2) and in the negative (-) direction to reduce air (for increased CO_2).

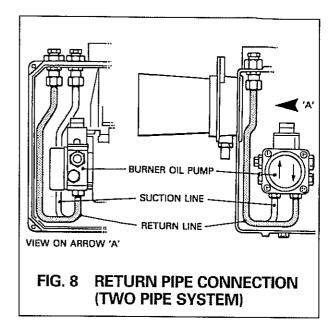


Oil Pipe Connections (Fig. 7 and 8)

The burner is supplied for use with a one pipe system. If used on a two pipe system, it is necessary to fit the bypass plug (supplied) into the return connection (See Fig. 7). It is also necessary to fit the return pipe (this is available from Trianco Part No. 28026) see Fig. 8.

(Additional long life hose available from Trianco for two pipe system) Part No. 207029.





Flexible Oil Hose

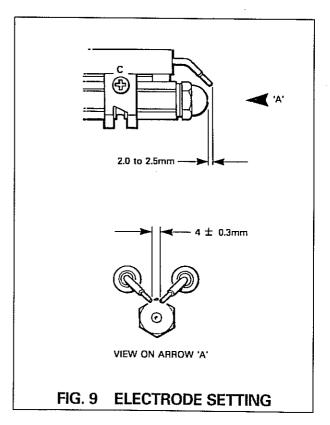
Check hose periodically for leaks and replace as necessary.

Oil Release Membrane

In the rare event of an oil leak occuring inside the burner cover an Oil Release Membrane allows oil to drop out into the boiler base tray where it can be readily detected. After curing the leak a new Oil Release Membrane must be fitted if the boiler is fitted with a room sealed balanced flue. Replacement is not necessary if the boiler is used with a conventional chimney (Trianco Part No. 28008).

Nozzle Replacement (Fig. 9)

Before assembling or removing the nozzle, loosen screw C and move electrodes forward.



4. INSTALLATION

Regulations

Installation of the boiler must comply with the following British Standards and Regulations:

BS 5410: Part 1 - Code of Practice for Oil Firing.

BS 5449 – Forced Circulation Hot Water Central Heating Systems.

The Building Regulations – Part 'J' (England and Wales)
Part 'F' Section III (Scotland)
Part 'L' (Northern Ireland)

The Control of Pollution (Oil) Regulations
Current I.E.E. Regulations
Local Water Undertakings By-laws
OFTEC Installation Requirements for Oil Fired Boilers and
Oil Storage Tanks.

Health and Safety at Work Act

This installer should be aware of his responsibilities under the Act and provide, where necessary, appropriate protection for persons carrying out the installation.

In the interest of safety, the boiler should be installed and commissioned by a competent engineer, preferably OFTEC trained and Registered.

A useful guide to 'Safe Working Practices for Oil Firing Technicians' is published by OFTEC.

Siting the Boiler

Sound Levels

Whilst the low sound level of the Trianco EuroStar boiler makes it eminently suitable for kitchen and utility room installation, the following aspects should be considered before installation:

- (a) Some people are particularly sensitive to even low noise levels so this aspect should be discussed with the householder.
- (b) Small rooms tend to amplify noise, particularly if the wall construction is hollow or the surface tiled.
- (c) A chimney passing through a bedroom can sometimes transmit noise.
- (d) Low level flue terminals produce some exhaust noise, so care should be taken when siting adjacent to neighbouring property.

Clearance and Service Access

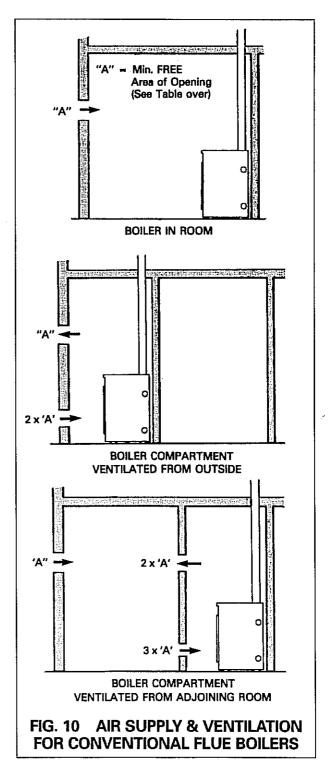
When siting the boiler, ensure adequate clearance is allowed for making water and flue connections. As the boiler can be fully serviced from the front, there is no need for a headroom allowance nor provision for removal of the kitchen work top but a clearance of at least 750mm is required at the front of the boiler.

Hearth

The thermal insulation provided in the boiler base ensures the floor temperature is kept below 80°C and, as such, a non combustible hearth is required. However, the floor must be level and capable of supporting the installed weight of the boiler, including its water content.

Combustion Air (Conventional flue boilers)

The provision of an adequate supply of combustion air is essential for the efficient and safe operation of the boiler. The air opening should be positioned so as to cause the least possible draught to the occupants and located so it is not liable to be accidentally blocked.



British Standard Code of Practice for Oil Firing BS 5410: Part 1 requires a permanent air inlet opening of 550mm2 per kW of boiler rated output. ABOVE 5 KW

The following air openings are therefore required for Trianco EuroStar boilers:

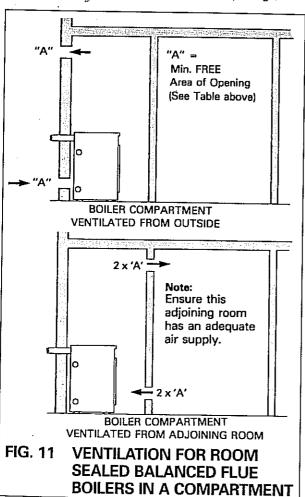
EuroStar Model	Minimum FREE Area Opening 'A'
40-50	80 cm² (12 in²)
50-60	97 cm² (15 in²)
60-70	113 cm² (18 in²)
70-90	145 cm² (22 in²)

Ventilation (Conventional flue boilers)

Where the boiler is installed in a compartment or a confined space, ventilation openings are also required to prevent overheating of the appliance controls (the ventilation areas are shown in Fig. 10).

Ventilation (Room sealed balanced flue boilers)

Although no openings are required for the supply of combustion air (this comes from outside through the air duct system direct to the burner), ventilation is, however, necessary if the boiler is installed in a compartment or a confined space in order to prevent overheating of the boiler controls (see Fig. 11 for ventilation openings).



Extractor Fan

If the boiler room has an extractor fan, the combustion performance of the appliance must not be affected when the fan is running and all doors and windows are closed. A flue gas check on the CO₂% and smoke number should be carried out to prove that combustion is satisfactory.

Heating and Domestic Hot Water Systems

The heating system should be installed in accordance with current HVCA Codes of Practice and BS 5449 Part 1 'Forced Circulation Hot Water Systems'.

Water connections can be made to the boiler using both pairs of flow and return tappings or, alternatively, single diagonally opposite tappings can be used.

If it is required to fit the circulating pump inside the boiler casing, use the socket on top of the boiler body.

Fit drain-off cock in the lowest part of the system.

Where a boiler is also used for providing domestic hot water, a double feed indirect cylinder to BS 1566 Part 1 must be used.

MAKE SURE ALL UNUSED BOILER TAPPINGS ARE PLUGGED BEFORE FILLING SYSTEM.

Flush out the system to remove any swarf or residues before fitting circulating pump.

Electrical Supply 230V 1 Phase 50Hz (Fused 5 Amp)

Note: THIS APPLIANCE MUST BE EARTHED

All electrical wiring must be carried out by a qualified electrician in accordance with current I.E.E. Regulations and any Local Regulations that may apply.

The mains electrical supply can be taken from a double pole isolating switch (fused 5 amp) situated near the boiler. The cable should be heat resisting and routed either along the top side of the casing in the cable clip provided or run from the bottom side through the hole in the base tray. It should finally be secured with the strain bush in the back of the control panel.

Terminal connections are also provided in the control panel for ancillary controls.

See wiring diagram Fig. 2 and 3.

Warning - High and Low Voltage

In certain parts of the country, where there is a known risk of high or low voltage fluctuations, the oil burner shall be prevented from starting by the use of a voltage sensitive device if the voltage drops or increases sufficiently to endanger the installation.

Thermostats

The boiler is fitted with a variable setting control thermostat and a pre-set limit thermostat. Should the boiler thermostat malfunction, the limit thermostat will take over control and shut down the boiler.

Programmer (optional extra)

A seven day, twin circuit electronic programmer is available for fitting to the boiler facia panel (see separate instructions supplied with programmer).

5. OIL SUPPLY

Oil

The oil burner is factory set to burn 28 sec. Kerosene.

Note: Only Kerosene is permitted for low level flue discharge:

Gas oil (35 sec) can be used with the EuroStar 60/70 and 70/90 boilers when connected to a conventional chimney but it is essential that a nozzle line oil pre-heater is fitted to the burner. 28023 E88.247 net there have

Gas oil is not recommended for use with the EuroStar 40/50 and 50/60 models.

100 Storage Tanks comparable contain 80 x ?

Size and Location of Tank

The tank should be large enough to allow for economic deliveries and be located in the most unobtrusive position, having regard to the need for safety, filling, maintenance (if steel tank) and the head of oil required.

Whilst it is highly unlikely that a fire could start from a domestic oil tank, it does however need to be protected from a fire that may originate in a nearby building, therefore the tank should not be located nearer than 1.8 metres from a building, nor closer than 760mm from a site boundary. Where a tank has to be less than 1.8 metres, the building wall must not have any openings other than small ventilation openings. The wall shall have a half hour resistance to an internal fire and extend 1.8 metres from any part of the tank.

Alternatively, a non-combustible radiation barrier must be provided which meets the requirements of BS 5410 Part 1: 1977, Clause 28. This standard applies to tanks up to a capacity of 3,400 litres which is deemed the maximum size for a single family dwelling.

Steel Tanks

Steel tanks should comply with the requirements of BS 799, Pt. 5: 1987 and mounted on brick or block piers with a waterproof membrane between the piers and tank.

The tank should be fitted with fill and vent connections (weather protected), a drain-off cock, shut-off valve and an oil level indicator.

Plastic Tanks

Polyethylene tanks are now widely used because of their advantages over traditional steel tanks:

- (a) They do not need pier supports and can be mounted directly on any flat surface giving uniform support for the tank base.
- (b) They do not corrode and therefore never need painting.
- (c) They are easier to handle because of their lower weight.
- (d) They have a 10 year manufacturer's guarantee.

Plastic tanks should be fitted with similar components to those used with steel tanks.

Oil supply line

A long life flexible oil hose is supplied with the boiler, a filter and shut-off valve are required. These should be fitted as shown in Figs. 12, 13 & 14.

The oil shut-off valve should be fitted as close to the burner as practicable to enable the burner to be disconnected without undue loss of oil. The filter must be connected in the oil supply pipe and positioned either inside or outside the building.

A fire-valve must be fitted in the oil line outside the building with its sensing phial positioned within the boiler casing below the control panel. A clip is provided for retaining the phial.

All oil line joints must be completely sealed and the total pipe run thoroughly flushed out before connecting to the burner. No soldered joints are permitted in the oil line.

The oil line can be fed into the back of the boiler base tray or through the holes at the side.

Single pipe oil supply (Fig. 12)

When the bottom of the oil supply tank is above the burner, a single pipe gravity system can be used. The oil supply pipe must be connected to the suction port on the burner pump via the flexible hose.

Two pipe oil supply (Fig. 13)

Where the bottom of the oil storage tank is below the burner, a two pipe suction lift system is necessary. When using a two pipe system, it is important that the by-pass plug (supplied with burner) is fitted in the pump as shown in Fig. 7. It is also necessary to connect a return pipe between the pump and burner front-plate as shown in Fig. 8. An additional flexible hose is also required.

A spring loaded non-return valve must be fitted in the suction line to stop the oil running back to the tank. A filter, shut-off valve and fire valve must also be fitted in the line.

No valves are permitted in the return line which must remain unobstructed at all times.

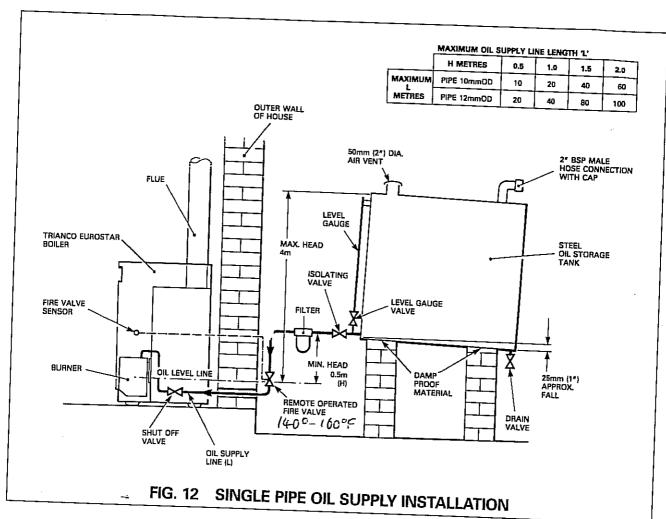
Notes:

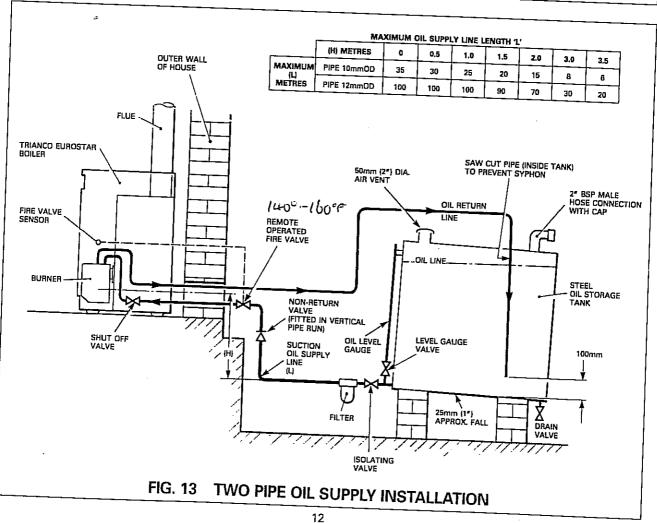
- The pump suction should not exceed 0.4 bar, otherwise dissolved gas will be released from the oil to affect combustion.
- (2) The return pipe must end at the same level as the suction outlet to prevent loss of prime.
- (3) The outlet from the tank should be approximately 75mm (3 in) above the bottom to prevent sediment and water being drawn into the supply pipe.

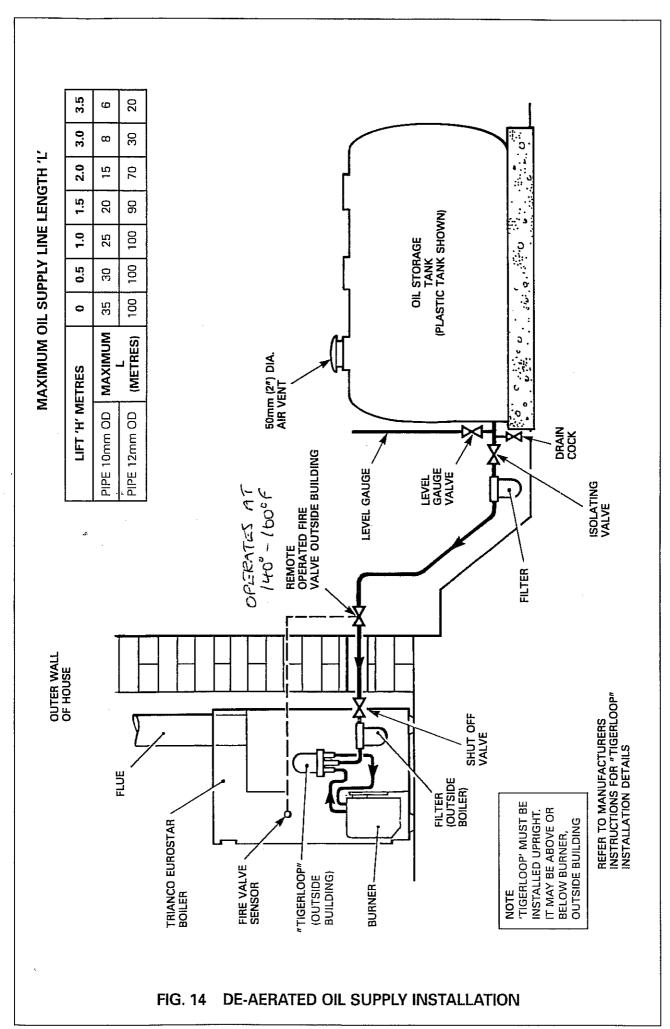
Tigerloop Oil De-aerator – single pipe supply (Fig. 14)

Where a two pipe suction lift system is required, but the return pipe is too long, or impractical to run, a Tigerloop De-aerator can be used. The burner is piped as for a two pipe system up to the Tigerloop but only a single pipe is required to be run back to the oil storage tank. A non-return valve is not required with this system but the bypass plug must be fitted in the pump as for a two pipe system.

The Tigerloop, which should be fitted close to but not inside the boiler casing, is available from most Builders Merchants and some Oil Tank manufacturers.







6. FLUE SYSTEM

To evacuate the products of combustion safely and thoroughly, the boiler must have an efficient flue system. The design and construction of the Trianco Low Level Discharger Kits already takes these factors into account so the following guidance notes are for conventional chimneys. Reference should also be made to BS 5410 Part 1 if further information is required on conventional chimneys.

Conventional chimney (Fig. 15)

- (a) The chimney should rise as vertically as possible and terminate at a point not subject to down draughts or wind eddies.
- (b) Brick and masonry chimneys must be lined with a moisture and acid resistant liner of the same diameter as boiler flue outlet.

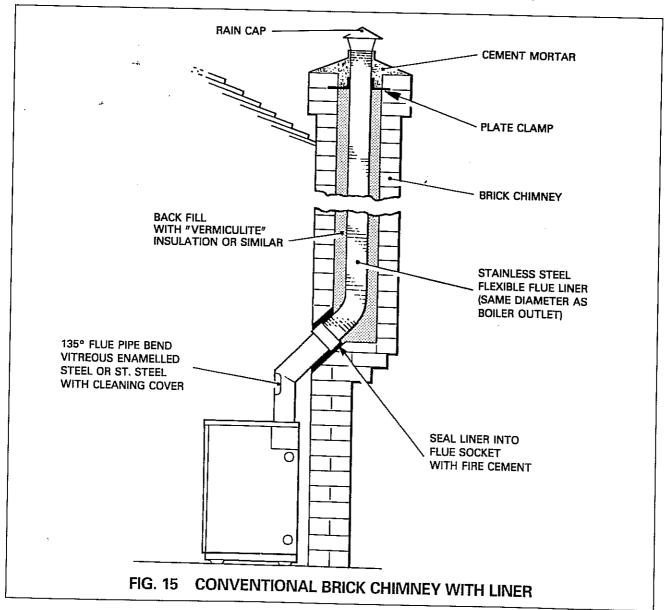
The use of a flexible stainless steel liner is a convenient method of lining an existing chimney and this should be back filled with 'Vermiculite' or similar insulating material to retain the heat.

A flexible liner should also be used in chimneys fitted with large diameter clay liners to reduce the flue bore and improve the thermal insulation.

Notes:

- In view of the EuroStar's high thermal efficiency, it is important that a liner is fitted, otherwise condensation problems could result.
- (2) Before fitting a liner, the chimney must be thoroughly cleaned free from all traces of soot and scale.
- (c) A factory made insulated chimney complying with BS 4543 Part 3 may be considered as an alternative to a structural chimney both for new and existing buildings.
- (d) The in-built flue gas resistance of the EuroStar is such that it allows the boiler to operate reliably over the wide range of chimney draughts encountered from typical domestic chimneys.

The use of a draught-stabiliser should not be necessary nor is it desirable since it allows flue noise to be emitted into the room and it could cool the chimney and create condensing conditions.



Balanced Flue (room sealed) systems (optional extra)

The Trianco balanced flue system offers much greater flexibility for siting the boiler compared with a conventional chimney. The only requirement is for a suitable outside wall to fit the horizontal discharge terminal or, alternatively, a single storey roof for a vertical discharge.

In addition to the siting benefit, the performance of balanced flue boilers is virtually unaffected by high wind conditions since wind pressures are applied equally to both air intake and flue gas discharge, thus creating a balanced condition.

Whereas some balanced flue boilers rely on case sealing to achieve a room seal, Trianco EuroStar boilers have a sealed air duct system which maintains the room sealed performance even when the casing door is removed for burner commissioning or adjustments.

The use of the balanced flue principle also enhances the overall thermal efficiency of the boiler since the incoming air extracts waste heat from the flue and returns it as preheated air to the burner where it aids combustion.

The high-level kits have an additional benefit in that the flue noise is reduced due to the coaxial arrangements of the air and flue pipes – the flue being surrounded by an air space forms an effective acoustic barrier.

INSTALLATION NOTES

(a) Location (Fig. 16)

The Terminal Silencer must be positioned so as to avoid products of combustion entering the building. A distance of at least 600mm must be allowed between the Terminal and any window, door or other opening into the building (see diagram for recommended terminal position).

(b) Flue Sealing

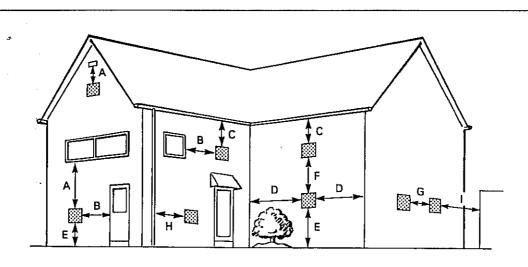
As the flue system operates under positive pressure, it is essential to seal all flue joints. Apply a thin bead of silicone sealant (supplied) around flue pipe spigot before inserting into socket.

(c) Fuel

Only Kerosene 28 sec. Class C2 is permitted for boilers using low level flue discharge.

(d) Important

Trianco Flue Kits have been designed primarily to use with Trianco EuroStar boilers and as such compatibility with other makes of boiler cannot be guaranteed.



RECOMMENDED MINIMUM DISTANCES FOR TERMINAL POSITION

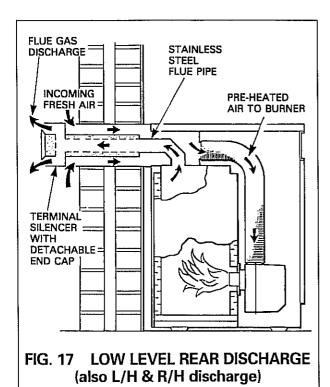
Lo	cation Minimum Distance	(mm)
A B	Directly below an opening, window or air brick Horizontally to an opening, window, door	600
	or air brick	600
C	Below a gutter, drainpipe, eaves or balcony	600
D	From internal or external corners	300
	Above ground level	600
F	Vertically from a terminal on the same wall	1500
	Horizontally from terminals on the same wall	900
Н	From a vertical drain pipe	300
ĺ	From a surface facing the terminal	1000

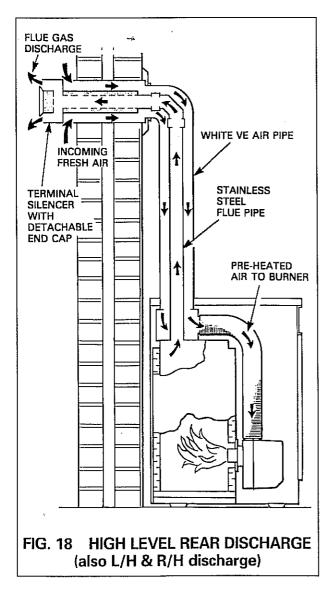
Note (i) The terminal should be positioned so as to avoid products of combustion entering the building.

Note (ii) If the terminal is less than 2 metres above the ground level, balcony or place to which any person has access, the terminal must be protected by a guard.

Note (iii) If the terminal is fitted within 850mm of plastic or painted gutter or within 450mm of painted eaves a heat protection shield should be fitted to the underside of the gutter or eaves.

FIG. 16 TERMINAL POSITION





TRIANCO ROOM SEALED BALANCED FLUE SYSTEMS

KITS AVAILABLE

Low-Level Discharge (Figs. 17, 20 & 21)

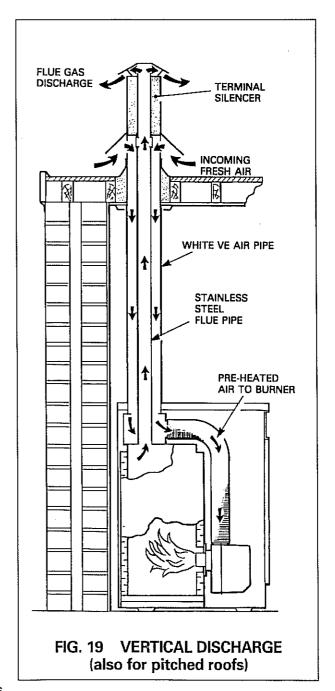
For rear outlet below boiler casing top. Optional extension ducts available for right and left side outlets and extra thick walls.

High-Level Discharge (Figs. 18, 22 & 23)

For high-level rear outlet. Optional pipe lengths available for right and left side outlets. Optional extension ducts also available for extra thick walls.

Vertical Discharge (Figs. 19 & 24)

For flat or pitched roof application in single storey buildings. Maximum flue length 2.9m.



Trianco Room Sealed Balanced Flue

LOW-LEVEL DISCHARGE 4" to 7" and 8" to 11" WALL THICKNESS (Fig. 20)

ASSEMBLY - REAR OUTLET

- Having decided position of boiler, cut hole in wall 170mm square at a centre height of 740mm from floor level.
- Pull off top casing panel, remove flue socket from top of boiler and fit AIR-BOX in its place, having removed top lid.
- 3. Fit FLUE ELBOW over spigot at bottom of air-box.
- Connect TERMINAL SILENCER to back of air-box ensuring pipe spigot engages fully into elbow. Tighten nuts to seal joint and replace top-lid on airbox.
- Fit AIR HOSE over spigot on burner and air-box and tighten HOSE CLIPS to seal.
- Push boiler back to wall, inserting terminal through hole.
- Make good around terminal on both sides of wall.
- Replace top casing panel and fit flue BLANKING PLATE.
- Terminal guard required if terminal is less than 2 metres from outside ground level.

ASSEMBLY - SIDE OUTLET

When using the rear discharge kit for a side outlet installation, it is necessary to use Extension Duct – Part Code: 2202.

 Having decided position of boiler, cut hole in wall 170mm square at a centre height of 740mm from floor level and 90mm horizontal to centre from corner.

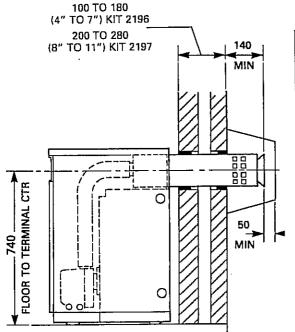
- Pull off top casing panel, remove flue socket from top of boiler and fit AIR-BOX in its place, having removed top lid. Also, remove corner panel from side casing.
- 3. Fit FLUE ELBOW over spigot at bottom of air-box.
- Remove cover-plate from side of air-box required for terminal.
- Push boiler in position, leaving side clearance of about 80mm for pipe connections (if required).
- 6. Measure distance from side of air-box to outside face of wall and add 140mm for terminal projection.
- Slide EXTENSION DUCT over TERMINAL-SILENCER, adjust to overall measured length and seal joint with tape.
- Fit FLUE PIPE into terminal and cut off surplus pipe flush with end of extension duct.
- Slide terminal assembly through wall through outside and connect to air-box, ensuring flue pipe engages fully into elbow. Tighten nuts to seal gasket and replace top lid on air-box.
- Make good around terminal on both sides of wall.
- Fit AIR HOSE over spigot on burner and air-box and tighten HOSE CLIPS to seal.
- 12. Replace top casing panel and fit flue Blanking-Plate.
- Terminal guard required if terminal is less than
 metres from ground level.

IMPORTANT:

Flue Sealing

As the flue system operates under positive pressure, it is essential to seal all flue joints. Apply a thin bead of silicone sealant (supplied) around flue pipe spigot before inserting into socket.

REAR OUTLET



ALL DIMENSIONS IN MILLIMETRES

DIMENSIONS

TERMINAL GUARD OPTIONAL EXTRA 204123 BLANKING PLATE GASKET SILENCER AIR HOSE HOSE CLIP

PART CODE: 2196 (SHORT) 4" TO 7" PART CODE: 2197 (LONG) 8" TO 11"

COMPONENTS

SIDE OUTLET IZH az LH USING EXTENSION DUCT (430LG)

PART CODE: 2202 WITH

100 TO 180
(4" TO 7") KIT 2196

200 TO 280
(8" TO 11") KIT 2197

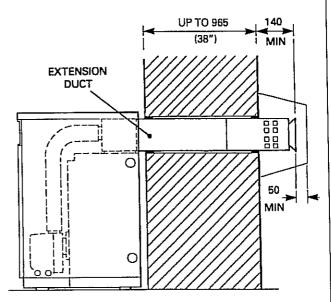
EXTENSION DUCT (430LG)

FRONT
VIEW

USE IN CONJUNCTION WITH PART CODES: 2196 (SHORT), 2197 (LONG)

EXTRA THICK WALLS USING EXTENSION DUCT WITH 2197

PART CODE: 2202 for walls 11" to 28" thick PART CODE: 2203 for walls 28" to 38" thick Note: WHEN USED FOR SIDE DISCHARGE FLUE THE MAX. WALL THICKNESS IS REDUCED TO 32"



USE IN CONJUNCTION WITH PART CODE: 2197

FIG. 20 LOW LEVEL DISCHARGE, 4" to 7" and 8" to 11" WALL THICKNESS (REAR OUTLET, SIDE OUTLET AND EXTRA THICK WALLS)

Trianco Room Sealed Balanced Flue

HIGH-LEVEL DISCHARGE 4" to 7 and 8" to 11" WALL THICKNESS (Fig. 21)

BOILER PREPARATION

- Having decided position of boiler, cut hole in wall 170mm square at a centre height of 1,880mm from floor level.
- Pull off top casing panel, remove flue-socket from top of boiler and fit AIR-BOX in its place, having removed top-lid.
- Refit flue-socket to top of air-box and top-lid to back of box.

ASSEMBLY OF BALANCED FLUE

- 1. Screw ADAPTOR-PLATE to end of TERMINAL.
- 2. Connect FLUE-BEND to terminal spigot.
- Clamp AIR-BEND to adaptor-plate with the CHROME CLIP.
- 4. Assemble FLUE-PIPE and connect to flue-bend.
- Feed AIR-PIPE over flue-pipe and clamp to air bend with a chrome clip.
- Slide WALL-PLATE up from bottom of pipe and screw to adaptor-plate.
- Offer complete balanced flue assembly over boiler and engage pipes into socket and spigot on air-box.
- Line up terminal with hole in wall and push boiler back until terminal is fully inserted in wall, up to wallplate.
- 9. Seal air-pipe into socket on air-box with glass fibre rope and fire-cement.
- 10. Make good around terminal on both sides of wall.
- Fit AIR HOSE over spigot on burner and air-box and tighten HOSE CLIPS to seal.
- Replace top casing panel.
- 13. Fit a terminal guard if the terminal is less than 2 metres from outside ground level.

SIDE OUTLET

When using the rear discharge kit for a side outlet installation, it is necessary to use a High-Level Side Discharge Kit – Part Code: 2201.

BOILER PREPARATION

- Having decided position of boiler, centre hole in wall 170mm square at a cut height of 1,880mm from floor level and 90mm horizontally to centre from corner.
- Pull off top casing panel, remove flue-socket from top of boiler and fit AIR-BOX in its place, having removed top-lid.
- Fit flue off-take plate to top of air box and terminal blanking plate to back and sides of box.

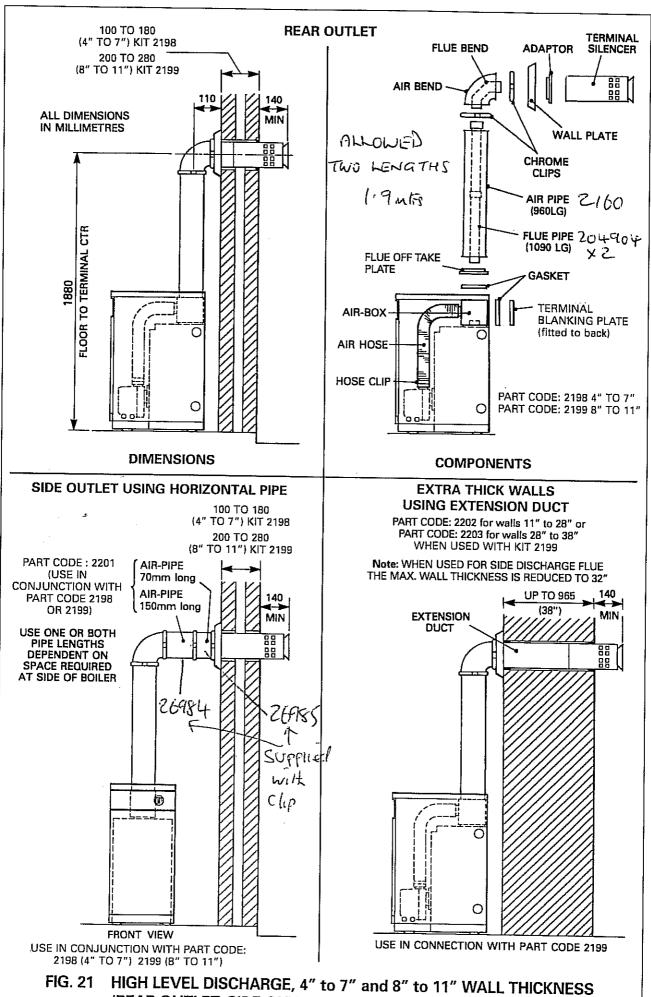
ASSEMBLY OF BALANCED FLUE

- 1. Screw ADAPTOR-PLATE to end of TERMINAL.
- Connect FLUE-PIPE (240mm long) to terminal (cut down to 170mm long if only using the 150mm horizontal air-pipe).
- Clamp AIR PIPE(S) (70 and 150mm LONG) to adaptor-plate with CHROME CLIPS.
- Slide WALL-PLATE over pipe and screw to adaptorplate.
- 5. Connect FLUE-BEND to flue-pipe and AIR-BEND to the horizontal assembly.
- 6. Assemble vertical FLUE-PIPES, slide inside AIR-PIPE and connect to both bends.
- Offer complete balanced flue assembly over boiler, pushing flue-pipe over spigot in air-box and locate air-pipe in socket on top.
- 8. Line up terminal with hole in wall and push boiler sideways until terminal is fully inserted in wall, up to wall-plate.
 - Alternatively, the terminal can be inserted from outside if space is restricted.
- 9. Make good around terminal on both sides of wall.
- 10. Seal air-pipe into socket with glass fibre rope and fire-cement.
- 11. Fir AIR-HOSE over spigot on burner and air-box and tighten HOSE CLIPS to seal.
- 12. Replace top casing panel.
- Fit a terminal guard if the terminal is less than 2 metres from outside ground level.

IMPORTANT:

Flue Sealing

As the flue system operates under positive pressure, it is essential to seal all flue joints. Apply a thin bead of silicone sealant (supplied) around flue pipe spigot before inserting into socket.



(REAR OUTLET, SIDE OUTLET AND EXTRA THICK WALLS)

Trianco Room Sealed Balanced Flue

VERTICAL DISCHARGE

4.2.5 VERTICAL DISCHARGE

BOILER PREPARATION

- Having decided position of boiler, cut a hole 175mm diameter or square in ceiling and roof.
- Pull off top casing panel, remove FLUE-SOCKET from top of boiler and fit AIR-BOX in its place, having removed top-lid.
- 3. Fit flue off-take plate to top of air box and terminal blanking plate to back and sides of box.

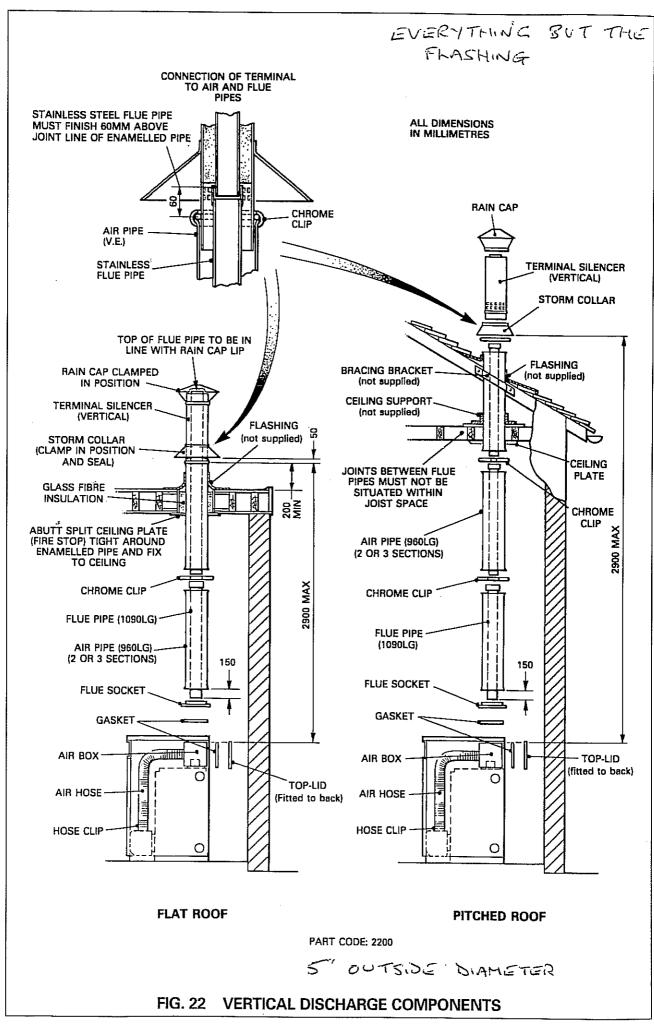
BALANCED FLUE ASSEMBLY

- Measure length of air-pipe required from top of airbox to a point above roof flashing line.
- Assemble required lengths of FLUE and AIR PIPES, ensuring flue-pipes are pushed fully into their sockets and air pipes are firmly clamped with the CHROME CLIPS.
- Adjust the flue-pipe so that the socket is 60mm above the top of air-pipe and protruding 150mm at bottom. Cut off any surplus flue-pipe from bottom.
- Pass complete pipe assembly up through ceiling and lower flue-pipe over spigot in air-box whilst locating air-pipe in socket.

- Fit CEILING-PLATE centrally over hole, ensuring airpipe has a minimum clearance of 25mm from any combustible material.
- Fix pipe bracing brackets (where necessary) to roof structure and fit weatherproof flashing around airpipe at roof line.
- Slide TERMINAL into top of pipe, ensuring flue spigot fully engages in flue-pipe socket. Use chrome clip to secure terminal to air-pipe.
- Fit STORM COLLAR and RAIN CAP to terminal in position shown, ensuring adequate space under storm collar for air entry.
- Pack space around air-pipe as it passes through ceiling/roof with glass fibre insulation.
- Seal air-pipe into socket on boiler with glass fibre rope and fire cement.
- Fit AIR-HOSE over spigot on burner and air-box and tighten HOSE CLIPS to seal.
- 12. Replace top casing panel.

IMPORTANT: Flue Sealing

As the flue system operates under positive pressure, it is essential to seal all flue joints. Apply a thin bead of silicone sealant (supplied) around flue pipe spigot before inserting into socket.



7. COMMISSIONING

It is strongly recommended that the boiler/burner unit is commissioned by a qualified technician, preferably OFTEC trained and registered.

It is the responsibility of the installer to ensure the boiler is properly commissioned, failure to do so will make the boiler's guarantee and any extended warranty null and void.

Although all burners are factory tested before despatch, they will usually need further air adjustment to achieve the readings indicated under 'Burner Settings' because of site variations in flue draught and back pressure.

Procedure

- 1. Switch off electrical supply to boiler.
- 2. Ensure boiler is full of water and all valves are open.
- Remove flue-cover and check that flue-baffles are correctly positioned (See Fig. 25 for baffle arrangement).
- Disconnect oil hose from burner, open shut-off valve and run off a quantity of oil into a container to check for a clean air free supply then reconnect hose. (This applies to a single pipe gravity system only).
- Check that the time-switch (if fitted) is in the ON position and room and boiler thermostats are calling for heat.
- Switch on electrical supply and the burner should start.

Note: The burner may lock-out on first firing due to air in the pump, if this happens, wait about a minute before pressing reset button to restart burner. If a further lock-out occurs, the air should be bled from the pump pressure gauge connection.

- Start and stop the burner two or three times until the flame cuts off sharply – this indicates any remaining air has been dispersed.
- 8. Allow the burner to run for about 15 minutes, then take a CO₂ reading through the sampling hole in flue-cover. Compare the reading with that given under 'Burner Settings' and adjust the air setting if necessary to achieve the required CO₂%. Also, check the smoke and flue gas temperature.

Handing over

After completing the boiler installation, the installer should make a thorough check of the system to ensure it is completely satisfactory and demonstrate to the user the operation of the boiler and any system controls.

All instructions should be handed to the user for retention and advice given regarding the need for annual servicing.

8. SERVICING

To maintain the boiler's high thermal efficiency and reliable operation, it should be serviced annually by a qualified engineer preferably OFTEC trained and registered.

Note: It is a requirement of the boiler's guarantee that an annual service is carried out by a qualified engineer.

If the boiler is used to provide central heating and hot water all year round, the best time for its annual service is just before the start of the heating season.

Where the boiler is shut down for the summer months, the service should be carried out as soon as possible after the end of the heating season.

Oil tank

Open tank drain-cock to draw off any accumulated water and sludge.

Line filters

Turn off oil supply and remove filter bowl. Wash filter element clean with kerosene.

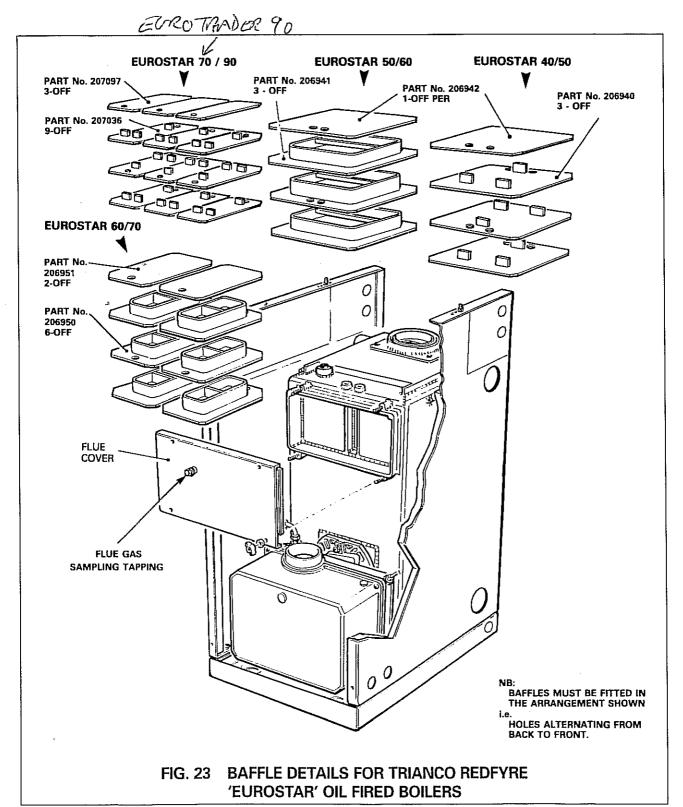
Servicing the Burner

- 1. Switch off electrical supply to boiler and turn off oil.
- Remove flexible air hose from burner (balanced flue boilers only), pull out the burner lead from underneath control-panel, unscrew burner retaining nut and withdraw burner from boiler, leaving mounting-flange attached to boiler.
- Slide off combustion head after slackening the two retaining screws and clean air holes and vanes.
- Fit a new nozzle with one of the same specification do not attempt to clean or dismantle nozzle.
- Clean ignition electrodes and check their settings in relation to nozzle tip. Also, inspect the porcelain insulatorion and replace electrode assembly if there are cracks or signs of crazing.
- Remove burner-cover, pull out control-box (after releasing side screw) and clean photo-cell.
- Remove R/H side of fan casing and check impeller for deposits – clean blades as necessary.
- Remove end cap from oil pump and take out filter. Wash clean with kerosene and replace.
- Check flexible oil hose(s) for oil leaks and replace where necessary with a similar 'long life' hose supplied with boiler.
- Reassemble all parts but do not refit burner to boiler until flue-ways have been cleaned

Servicing the Boiler (Burner removed)

- Remove flue-cover and lift out flue-baffles (see Fig. 25).
- 2. Brush all deposits from flue-baffles and internal surfaces of the boiler.
- 3. Remove flue deposits from the combustion chamber floor using a vacuum cleaner.

- Replace flue-baffles in the correct arrangement (see Fig. 23 for order of assembly). Refit flue-cover and fully tighten wing-nuts to make a gas tight seal.
- Refit burner to boiler, connect flexible air hose (balanced flue boilers only) and plug-in burner lead.
- Turn on oil supply, switch on electricity and burner should fire.
- Finally check the combustion readings with those given under 'Burner Settings' and make any air or oil pressure adjustments necessary.



9. FAULT FINDING

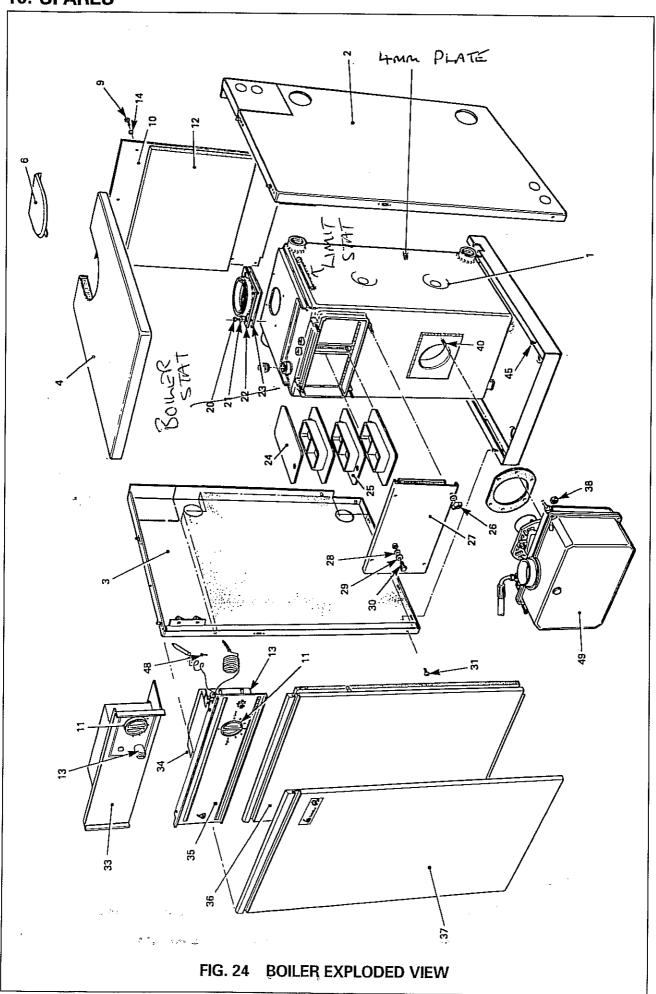
ELECTRICITY SAFETY - Before making any electrical checks, switch off mains supply to boiler.

FAULT	POSSIBLE CAUSE	ACTION
BURNER WILL NOT START	Control box locked out	Press reset button on front of burner. N.B. ONLY TRY TWICE
	Limit-stat tripped	Press reset button under control panel and check function of boiler control thermostat
	Boiler thermostat or other system controls satisfied	Ensure all controls are calling for heat.
	Fuse blown	Fit new 5 amp fuse, if it blows again, checl for short circuit in wiring.
	Check for live supply continuity up to burner	If live supply confirmed, change control box.
	Motor or pump seized	Check for rotation and replace as necessary.
BURNER STARTS BUT FLAME NOT	No oil supply	Check oil level in tank and feed to burner.
ESTABLISHED	Photo-cell not seeing flame	Clean photo-cell and ensure it is fully plugged in.
- vá	Air trapped in pump	Bleed off air through pressure gauge tapping.
£	Solenoid valve faulty	Check coil for continuity and replace if faulty.
	Nozzie blocked	Replace nozzle with one of same specification.
	Electrodes incorrectly set	Reset gap and position electrodes as shown in Burner diagram.
	Electrode insulator cracked	Check and replace if insulator cracked or crazed.
	Ignition transformer and H.T. contacts	Check for spark and condition of H.T. contacts. Replace as necessary.
	Low oil pressure	Check pump pressure and adjust to correct setting.
FLAME ESTABLISHED BUT BURNER LOCKS	Oil contaminated with water	Run off oil at burner until free of water and drain condensation from tank.
OUT AFTER FEW SECONDS	Oil filter partially blocked	Wash filter clean with kerosene.
	Photo-cell fault	Clean photo-cell and ensure it is fully plugged in. Replace if faulty.
	Oil pressure low	Check pump pressure and adjust to correct setting.

FAULT FINDING (Cont'd)

FAULT	POSSIBLE CAUSE	ACTION
POOR FLAME CUT-OFF	Air in pump or at back of nozzle	Bleed pump through pressure gauge port, also check for leaks in oil line if 2-pipe system.
	Oil contaminated with water	Run off oil at burner until free of water and drain condensation from tank.
	Dirt in solenoid valve	Clean or replace valve.
	Pump shut-off piston sticking	Replace pump.
MORNING START LOCK-OUT	Faulty non-return valve or air leak in two pipe system	Replace non-return valve and cure leak.
	Low voltage	Check with local Electricity Board.
	Combustion readings incorrect	Check combustion under normal running conditions and compare readings with those given under 'Burner Settings'.
	Oil level in tank falling below burner	Raise tank or fit a 2-pipe system.

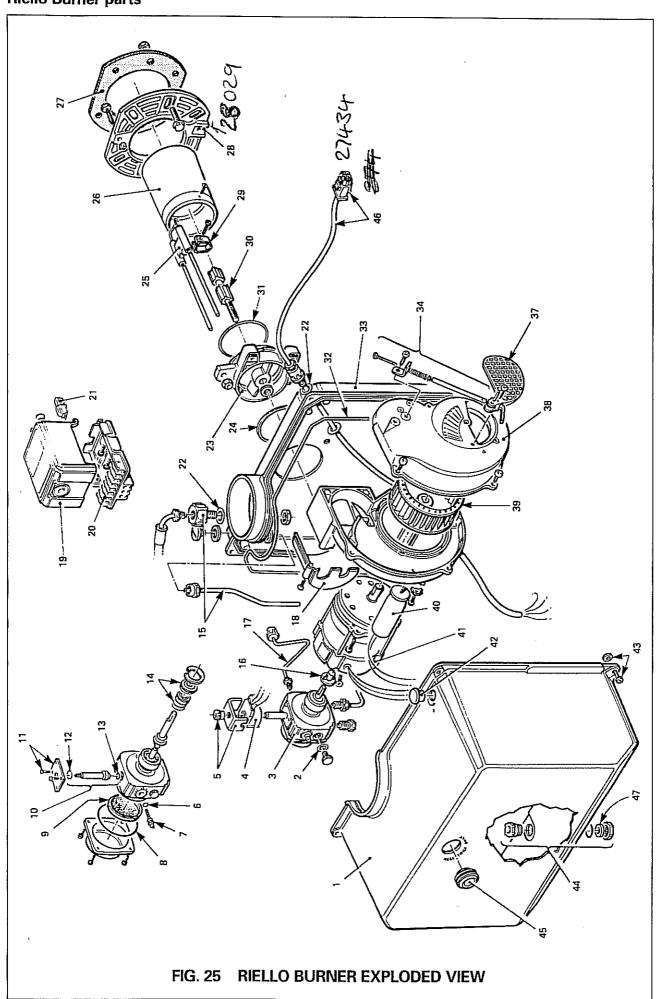
10. SPARES



	r Boiler parts NO PUMP (ovell	~ Sla	it L	thed	[
Item	Description	No. Off	40-50	50-60	60-70	70-90	
1	Boiler Body 4- MM PLATE	1	207960	207960	207965	207970	
2	R/H Side Panel Assembly (Standard)	1	207785	207785	207785	207785	
	R/H Side Panel Assembly (Boiler House)	1	207795	207795	207795	207795	
3	L/H Side Panel Assembly (Standard)	1	207780	207780	207780	207780	
	L/H Side Panel Assembly (Boiler House)	1	207790	207790	207790	207790	
4	Top Panel Assembly (Standard)	1	207810	207810	207810	207830	
	Top Panel Assembly (Boiler House)	1	207814	207814	207814	207834	
6	Flue Cover Plate (STD)		207880	207880	207880	207880	
	Flue Cover Plate (Boiler House Model)		207885	207885	207885	207885	
9	No. 6 x 12 Flange HD Pozi S/Tap	4	91523	91523	91523	91523	
10	Back Panel	1	207789	207789	207789	207819	
11	Boiler Control Thermostat	1	206896	206896	206896	206896	RANGE K
12	Back Insulation	1	206911	206911	206911	207054	
13	Limit Thermostat	1	206892	206892	206892	206892	
14	M5 Washer	10	92188	92188	92188	92188	
20	M6 x 12 Hex HD Setscrew	4	91007	91007	91007	91007	
21	M6 Washer	4	92189	92189	92189	92189	
22	Flue Socket Plate	1	205105	205105	205105	205105	
23	Gasket Late	1	204072	204072	204072	204072	
24	Baffle Plate	1	206942	206942	_		
-7	Baffle Plate	2			206951	_	
	Baffle Plate	3	_	_	_	207097	
25	Baffle W.U.	3	206940	206941	_	_	
20	Baffle W.U.	6	2000,0		206950	_	
		9	_	_	200000	207036	
	Baffle W.U. M6 Wing Nut	4	94225	94225	94225	94225	
26	_	1 1	206900	206900	206900	207030	
27	Flue Cover Assembly		92278	92278	92278	92278	
28	Sealing Washer	1			92278	92278	
29	M10 Washer	1 1	92210	92210 91333		91333	
30	M10 x 16 Hex HD Setscrew	1	91333		91333		
33	Boiler/House Control Box Assembly	1	207210	207210	207210	207232	
34	Control Box Assembly (Standard Model)	1	207890	207890	207890	207900	
35	Facia Panel (Standard Model)	1	207893	207893	207893	207903	
36	Front Door Assembly (Standard Model)	1	207800	207800	207800	207820	
37	Front Door Assembly (Boiler House Model)		207805	207805	207805	207825	
38	M8 Flange Nut	4	94396	94396	94396	94396	
40	M8 x 23 Stud	4	91593	91593	91593	91593	
45	M5 x 10 Pan HD Pozi Setscrew	6	91184	91184	91184	91184	
49	Burner Assembly	1	206961	206962	206963	206964	

OIL LINE BALL VALVE & B.C.D. FEMALE ENDS PROGRAMMER PART NO 2265 (NO LIGHTS ON PANEL) " - 2204 (LIGHTS ON PANEL) SHORT HOSE OUM 204096

206 931 u 0,9m Lona 28



Riello Burner parts

EuroStar 40-50 - G5BF 206961 EuroStar 50-60 - G5BF 206962 EuroStar 60-70 - G5BF 206963 EuroStar 70-90 - G5BF 206964

ltem	Description	Trianco Part No.
3	Oil Pump	204345
4	Solenoid Coil	27937
16	Drive Coupling	27949
17	Oil Pipe	28018
19	Control box 530SE * (A)	28004
21	P. E. Cell	27944
25	Electrode assembly (40/70)	28007
25A	Electrode assembly (70/90)	206969 -
26	Cup-Shaped head (EuroStar 50)	206971
26	Cup-Shaped head (EuroStar 60)	206971
26	Cup-Shaped head (EuroStar 70)	206972
26	Cup-Shaped head (EuroStar 90)	206973
27 28 40	Gasket MOUUTIJに FLANに置 Capacitor 4 uF	28005 උදුවේ 27979
41	Motor	27932
47	Oil Release Membrane	28025
_	Danfoss 0.5 x 80°s Nozzle (EuroStar 50)	26549
	Danfoss 0.6 x 80°s Nozzle (EuroStar 60)	26550
_	Danfoss 0.65 x 80°s Nozzle (EuroStar 70)	26858
_	Danfoss 0.75 x 80°s Nozzle (EuroStar 90)	203473
	1	27434

WIRING LOOM

27434

picks up the flame (because its overcarried it blows out the flame on the head) partially cover the air inlet with a hard till it is raising run for 15 min & take CO2 adjust air to suit.

TRIANCO REDFYRE CUSTOMER AFTER SALES SERVICE INFORMATION

A step by step guide to reporting a fault with your appliance

A qualified field SERVICE ENGINEER is available to attend a breakdown or manufacturing fault occurring whilst the appliance is under guarantee.

No charge will be made for parts and/or labour providing:

An appliance fault is found and the appliance has been installed and commissioned within the past 24 months. Reasonable evidence of this must be supplied on request. A full service must be carried out every 12 months in order for the guarantee to be valid.

A charge will be made where:

 Our Field Service Engineer finds no fault with the appliance (see note below).

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The cause of a breakdown is due to other parts of the plumbing/heating system (including oil line/lack of oil), or with equipment not supplied by Trianco Redfyre.

or

The appliance has been installed for over 24 months and has no extended warranty agreement.

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 The appliance has not been correctly installed, commissioned or serviced as recommended (see commissioning, installation and service instructions).

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The breakdown occurs immediately following an annual service visit. In this instance your appointed Service Agent must check all his work PRIOR to requesting Trianco Redfyre to attend. NOTE: Burner nozzles are excluded from the manufacturers guarantee.

Over 50% of all services calls made are found to have no appliance fault.

What to do in the event of an appliance fault or breakdown:

- Step 1: Always contact your installer or commissioning engineer in the first instance, who must thoroughly check all his work PRIOR to requesting a service visit from Trianco Redfyre.
- Step 2: If your appliance has developed an in-guarantee fault your installer should contact Trianco Redfyre Service Centre for assistance.

What happens if my installer/engineer is unavailable?

Step 3: Contact Trianco Redfyre Direct. We will provide you with the name and telephone number of our Service Agent. However a charge may apply if the fault is not covered by the appliance guarantee (payment will be requested on site by our independent Service Agent).

PLEASE NOTE:

Unauthorised invoices for attendance and repair work carried out on this appliance by any third party will not be accepted by Trianco Redfyre.

SERVICE CENTRE

Tel: 0114 257 2300 Service Desk Ext. 220 Customer Services Manager Ext. 232

TECHNICAL SUPPORT

Technical Helpline
Direct Line 0114 257 2301
Hours of business Monday to Friday 8.30am-5.00pm