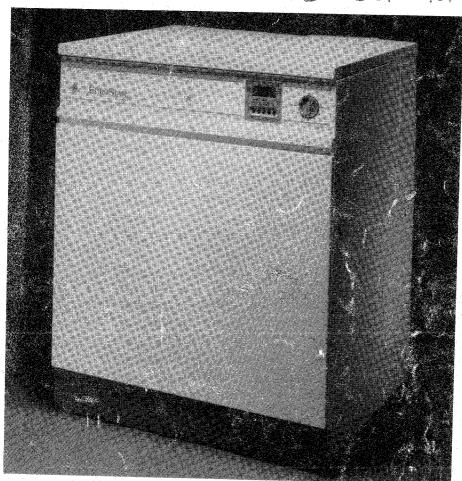
TRIANCO 2220

TRIANCO Eurostar Combi

3-Port Rump 208072



Model shown with optional programmer kit

EVERSE PUMP UPTO

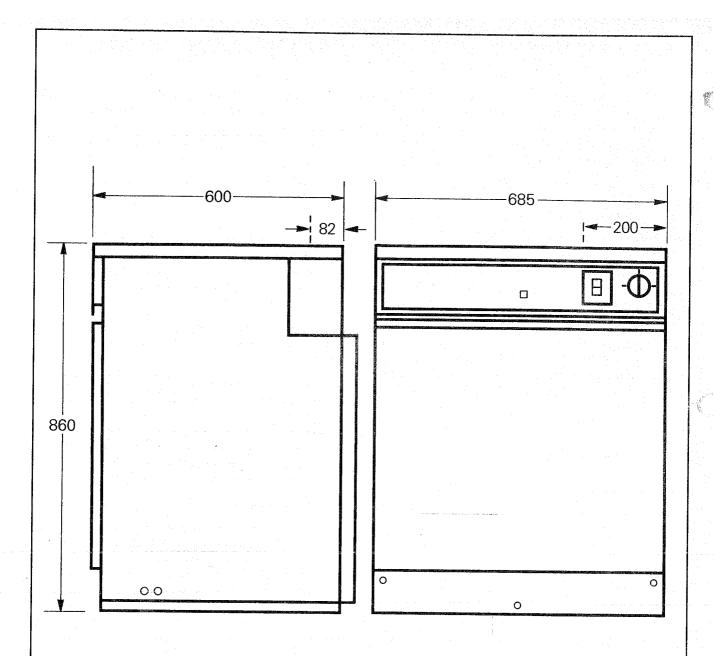
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USER INSTALLATION COMMISSIONING & SERVICING INSTRUCTIONS

To be retained by the householder.

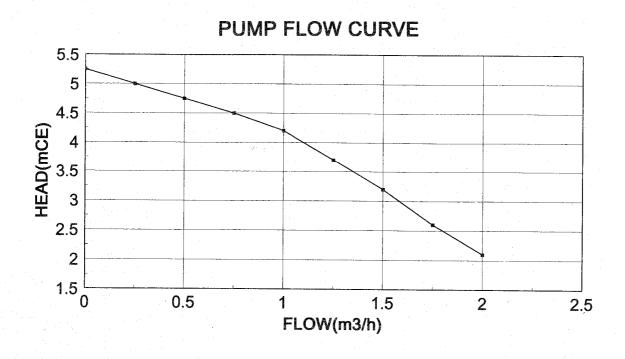
TECHNICAL DATA

	METRIC	IMPERIAL							
Rated Input	22.0 kW	75,000 Btu/h							
Rated Output	20.5 kW	70,000 Btu/h							
Riello Oil Burner	G5 E	3F							
Weight (empty)	170 kg	375lb							
Water Content	100	22.2 gal							
C H Flow & Return	22mi	m							
DHW Inlet & Outlet	15mm								
Drain off socket	1/2" BSP								
Flue Socket Dia (C.F.)	100 & 125mm	4 & 5 in							
Max. Operating Pressure	3 bar	43.5 psi							
Test Pressure	4.5 bar	65.3 psi							
Water Side Resistance 10°C diff.	21.3 mbar	8.5 in wg							
Water Side Resistance 20°C diff.	5.2 mbar	2.1 in wg							
Overall Height	865mm	34 in							
Overall Width	685mm	30 in							
Overall Depth mm (in)	600mm	23.6 in							
Control Thermostat	Ranco ODD	Type K36							
Overheat Thermostat	Ranco LM 7 (Manual Reset)								
Tank Control Thermostat	Ranco ODD	Type K36							
High Flow Thermostat	Ranco ODD Type K36								
Pump Overrun Thermostat	Ranco ODD Type K36								
Electricity Supply	230V ~ 50Hz Fused at 5A								
Pumps	WSP CTI H40								
Expansion Vessel	Zilmet 10L charge 0.5 bar								
Tank Overheat Thermostat	Ranco LM 7 (Manual Reset)								
Pressure Gauge	Imet 0-4 bar								
Flow Switch	Novamec EFS 1	15921 1031							
Max. Flow Temp. CH	86°C	187°F							
Flow Rate DHW @ 3 bar	22 Litre	4.9 gal							
Available Head (System	3m	9.75 ft							
Flue Gas Temperature	215°C								
Required Flue Draught	12.5 mm	0.05 in							
Fuel	Kerosene 28s BS 2	2869 Class C2							
		3							
		The state of the s							



SPACE REQUIRED FO	R INSTALLATION A	ND MAINTENANCE
REAR	NIL (mm)	NIL (in)
SIDE LH/RH	20 (mm)	³ / ₄ (in)
FRONT	600 (mm)	24 (in)
TOP	450 (mm)	18 (in)
BASE	NIL (mm)	NIL (in)

THE BOILER MAY BE INSTALLED
BELOW A KITCHEN WORK SURFACE
SO LONG AS THE SECTION IS
REMOVABLE AND THE MAINTENANCE
CLEARANCE IS MAINTAINED
CLEARANCE UNDER WORK SURFACE
5mm MINIMUM



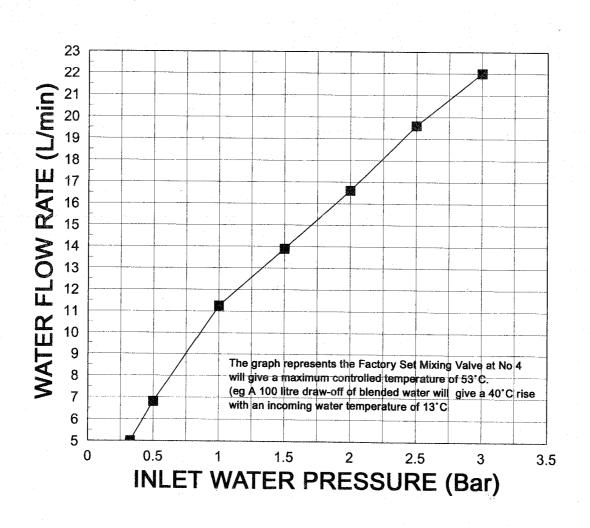
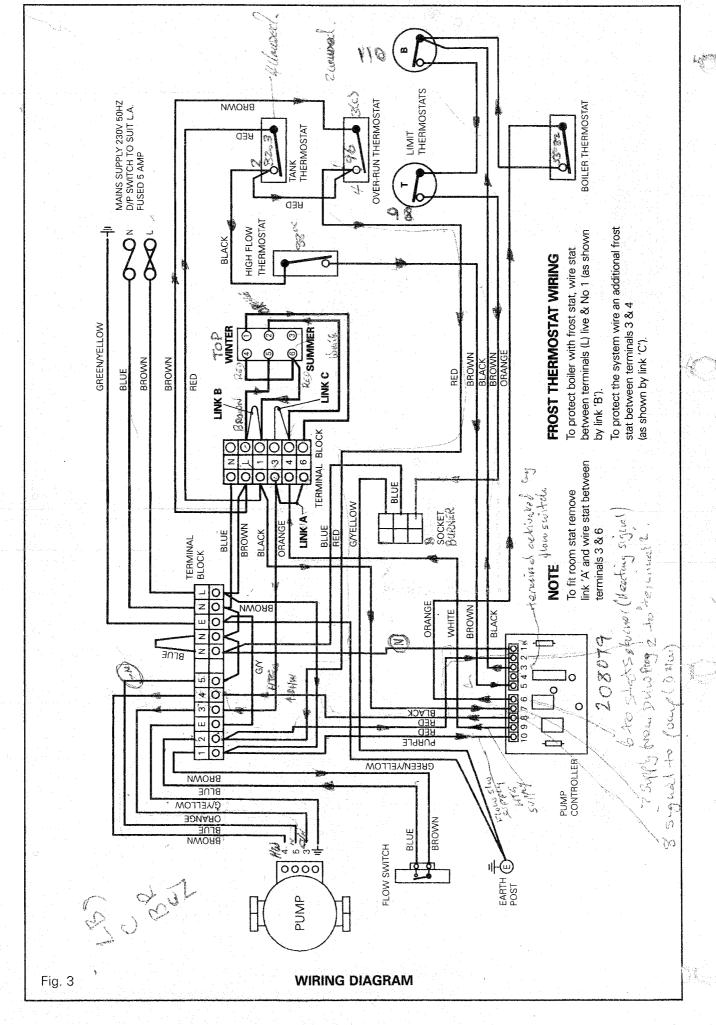
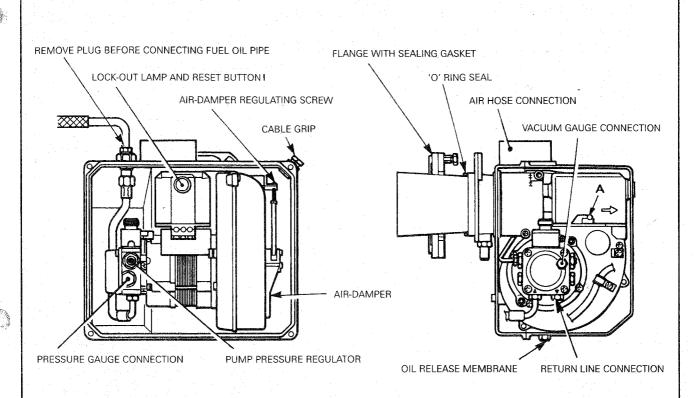


Fig. 2





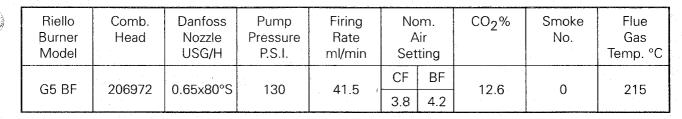
NOTES:

- (a) TO REMOVE THE CONTROL-BOX FROM THE BURNER, LOOSEN SCREW (A) AND PULL TOWARDS THE ARROW.
- (b) THE PHOTO-CELL IS FITTED DIRECTLY INTO THE CONTROL-BOX (UNDERNEATH THE IGNITION-TRANSFORMER) ON A PLUG-IN SUPPORT.

Fig 4.

BURNER GENERAL ASSEMBLY

Burner Settings



Burner Settings

Air Damper Settings (Fig. 5)

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 CO₂) and in the negative (–) direction to reduce air (for increased CO₂).

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 by-pass plug into the return connection (See Fig. 7). It is also necessary to fit the return pipe (these are available from Trianco Part No. 28026).

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

Flexible Oil Hose

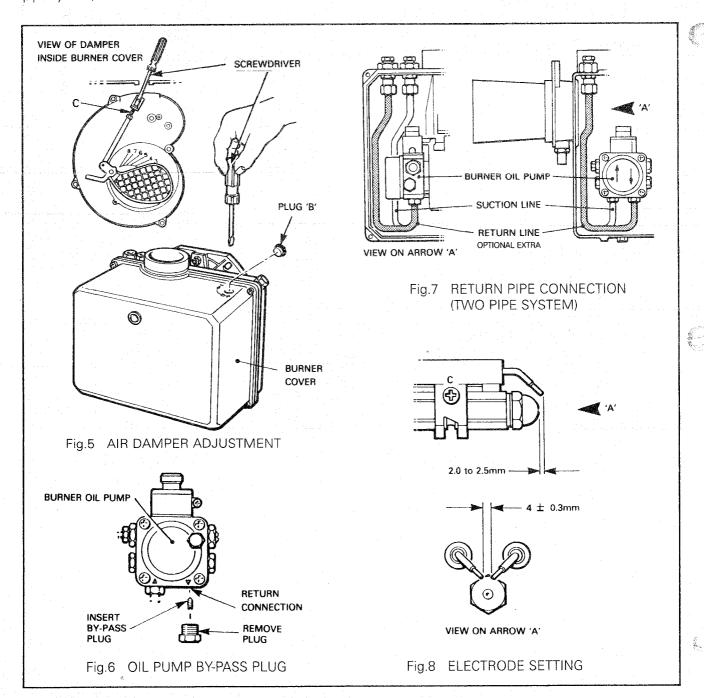
Check hose periodically for leaks and replace as necessary.

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. 8)

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



FUNCTION OF CIRCULATING PUMP

1. General Description

- (a) The circulating pump on this appliance has been designed to pump on the return flow.
- (b) The pump is a bi-directional 3-port type which means the live supply to the pump can be switched to make the pump rotate in either direction 'A' or 'B'.
- (c) The pump housing also contains a mechanical paddle which moves to close off one of the Return Ports 3 or 4, depending on the pump rotation.

2. Hot Water Mode

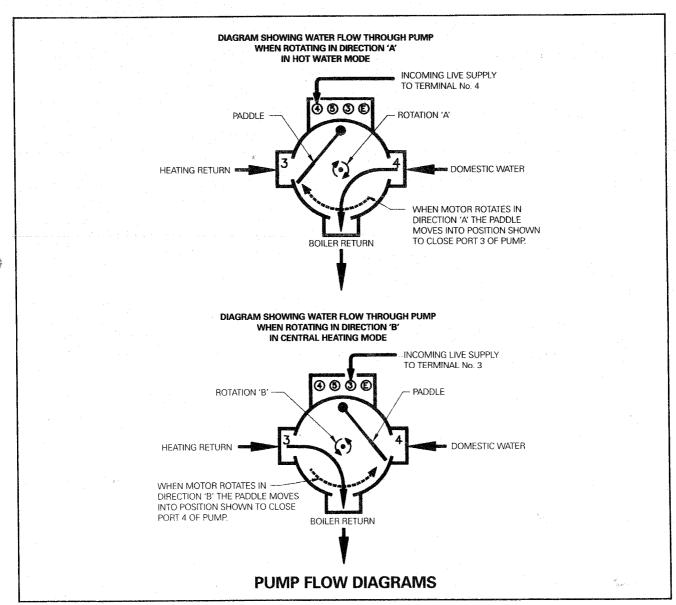
- (a) Power is supplied to Terminal 4 on the pump. This drives the motor in direction 'A' which, in turn, pulls water through the domestic heat exchanger and into the pump (Return Port 4). This moves the mechanical paddle over to close off heating Return Port 3 on the pump.
- (b) The water is then returned to the boiler for reheating.

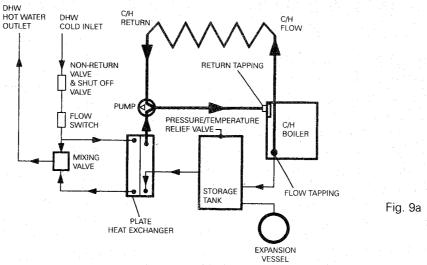
3. Central Heating Mode

- (a) Power is supplied to Terminal 3 on pump. This drives the motor in direction 'B' which, in turn, pulls water from the central heating system (Return Port 3 on the pump) and moves the mechanical paddle over to close off heat exchanger Return Port 4 on the pump.
- (b) The water is then returned to the boiler for reheating.

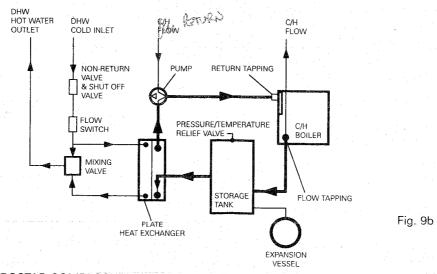
4. Electrical Operation

- (a) For the pump to change direction in operation, the mains power has to be cut off to the pump for 3 seconds (min).
- (b) This allows the pump to stop before power is applied to the alternative Terminal, enabling the pump to rotate in the opposite direction.
- (c) The pump control board in the control box is responsible for the operation of the pump switching from hot water mode to central heating mode. Refer to full wiring diagram Fig. 3 and pump flow diagrams.



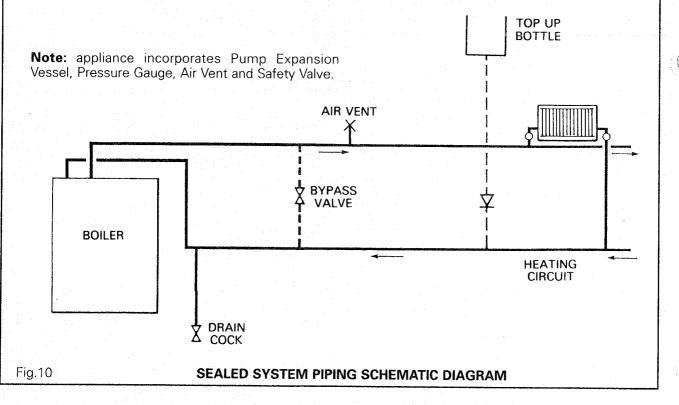


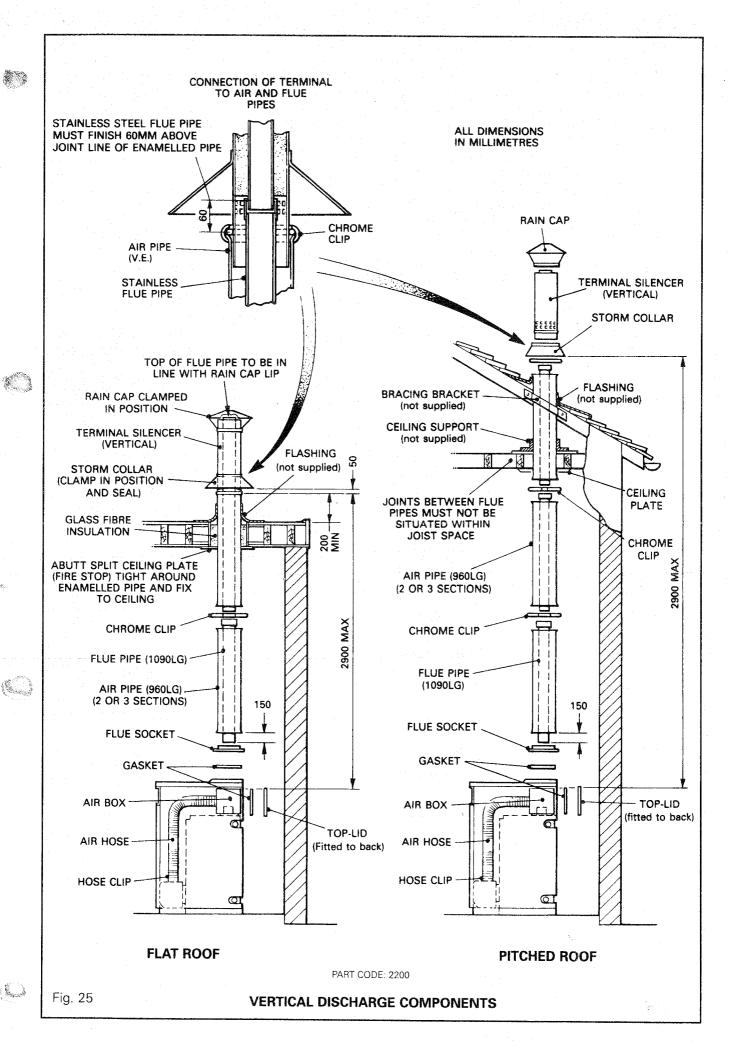
EUROSTAR COMBI SCHEMATIC LAYOUT CENTRAL HEATING MODE

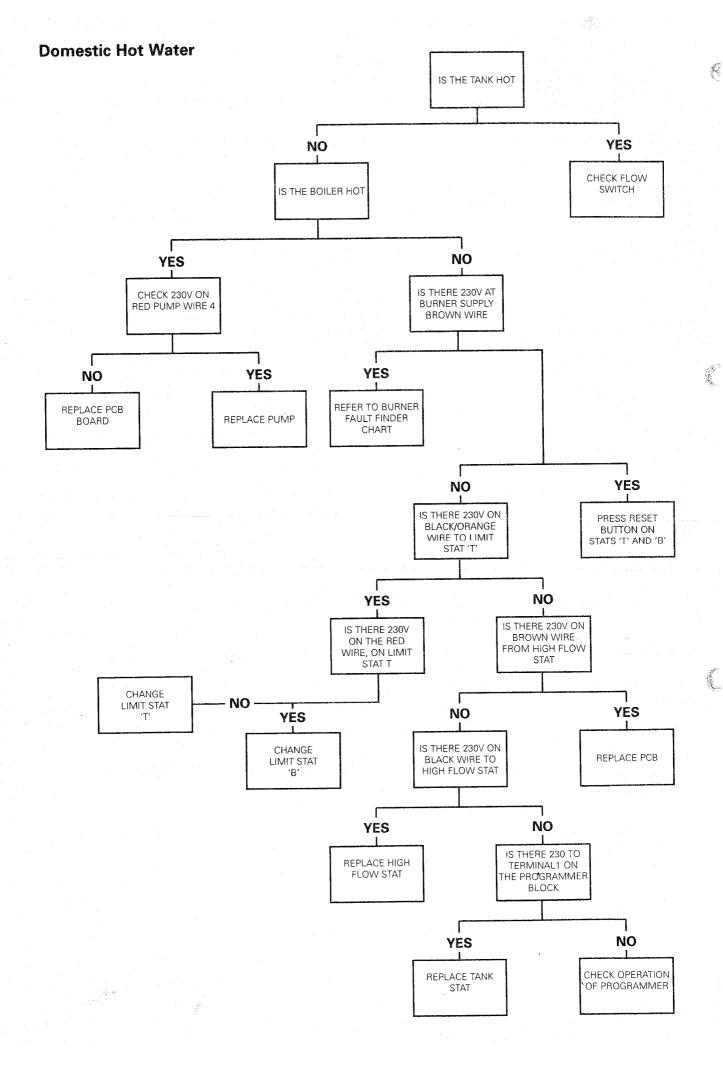


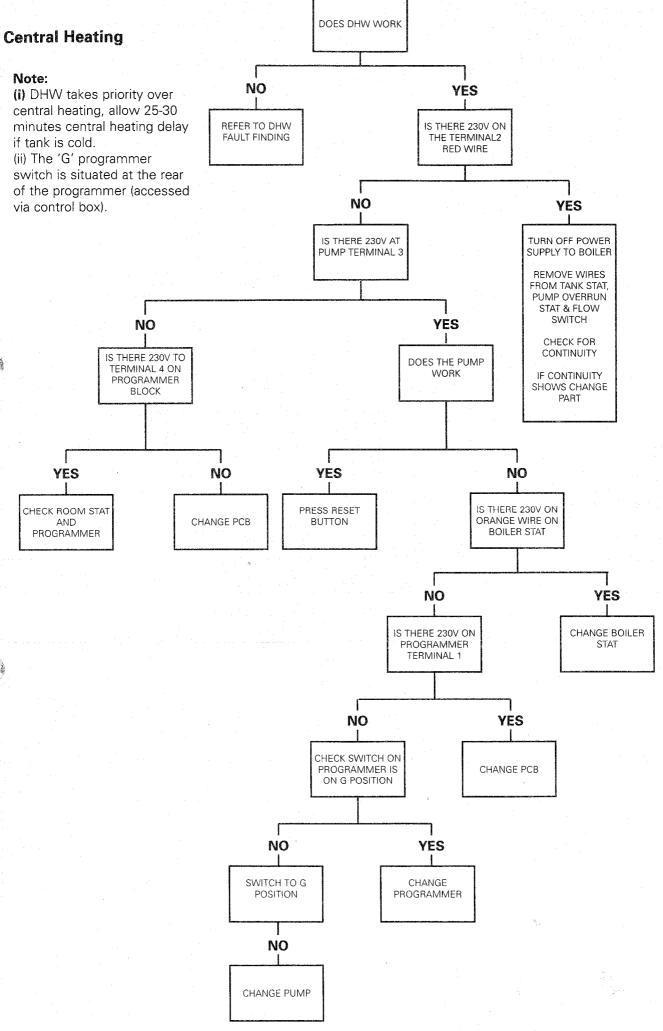
EUROSTAR COMBI SCHEMATIC LAYOUT DOMESTIC HOT WATER MODE

Fig.9 EUROSTAR COMBI SCHEMATIC LAYOUT

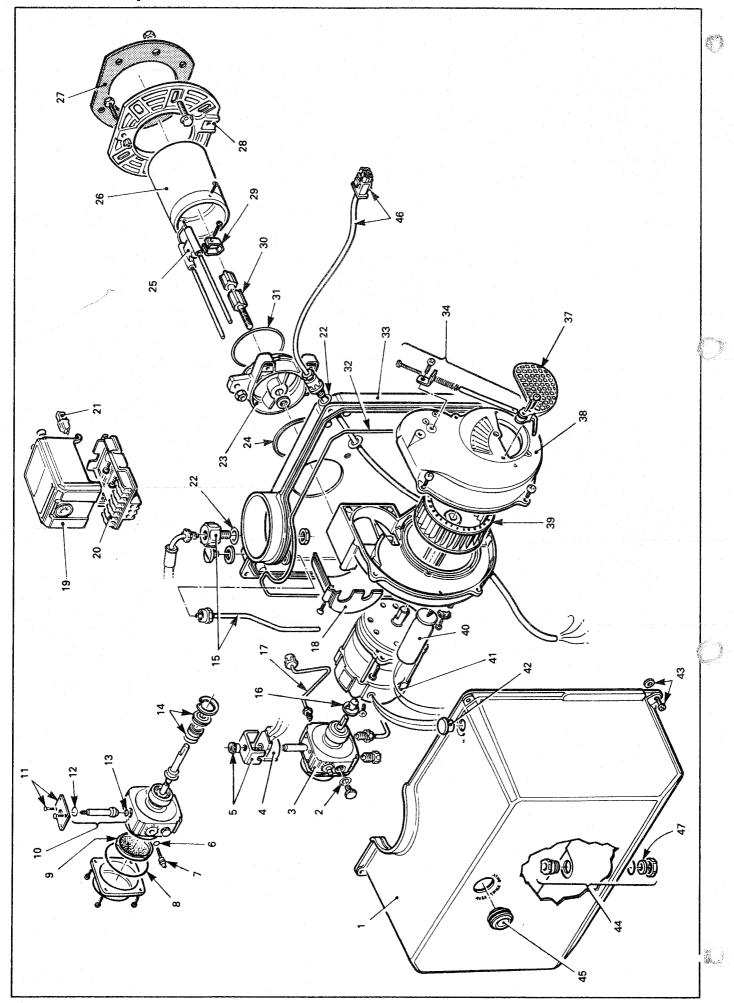








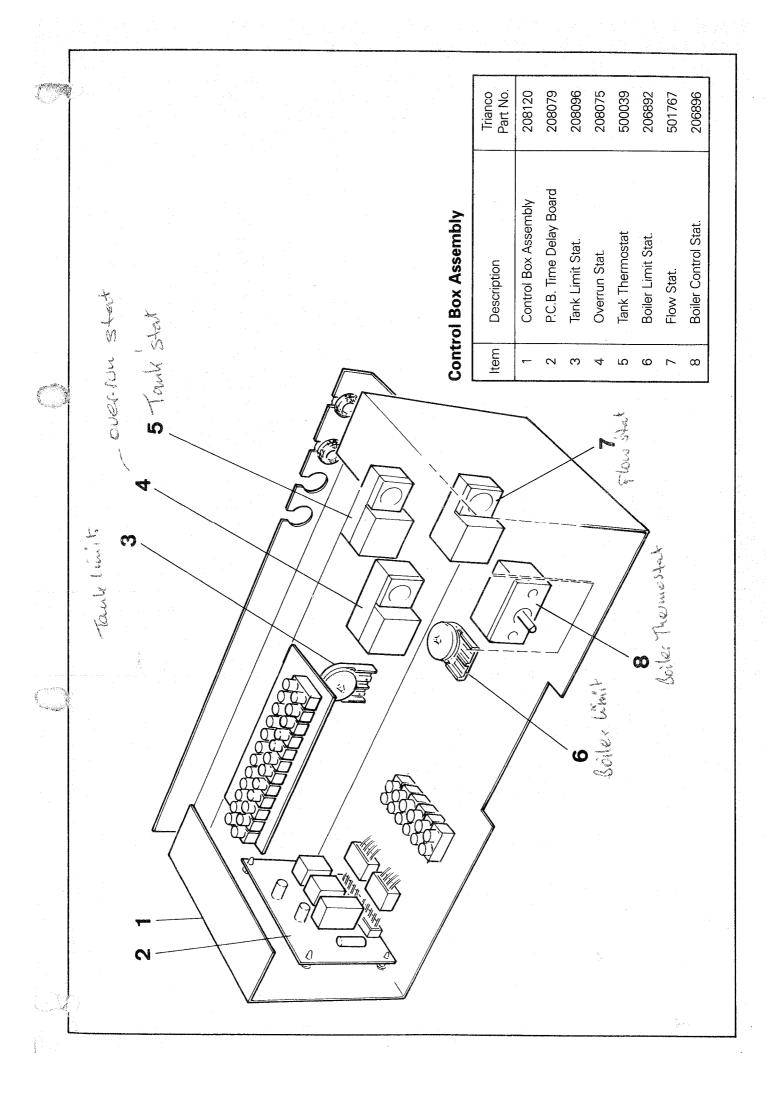
Riello Burner parts

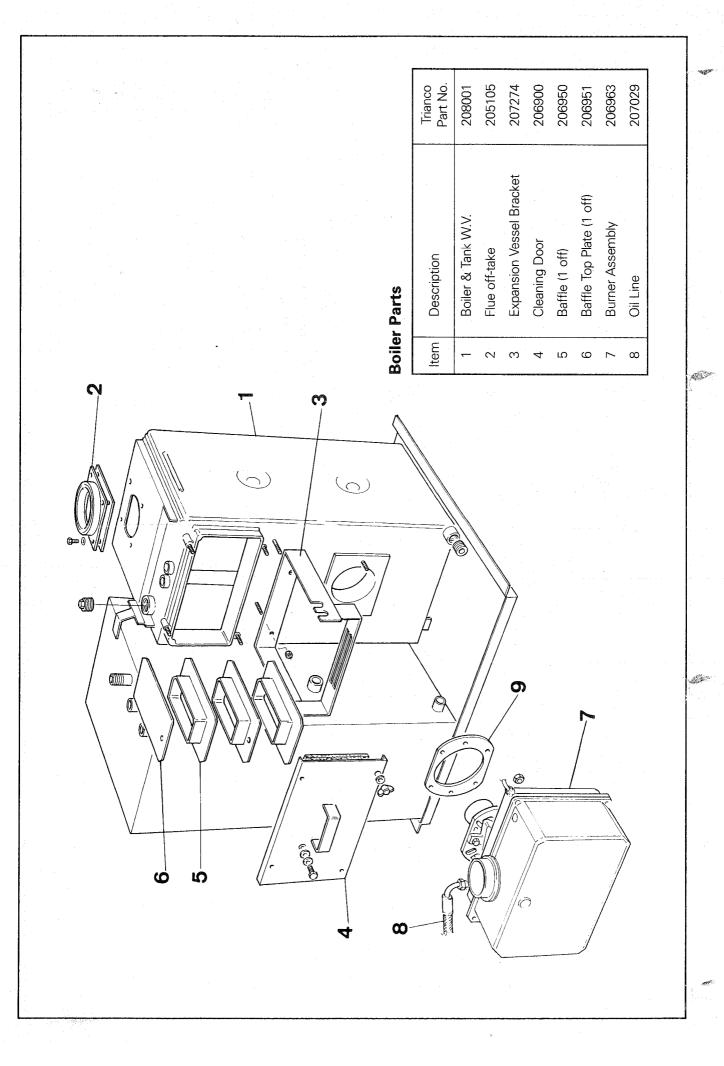


Riello Burner Parts

EuroStar 70 – **G5BF** 206963

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	28007
26	Cup-Shaped head	206972
27	Gasket	28005
40	Capacitor 4 uF	27979
41	Motor	27932
47	Oil Release Membrane	28025
-	Danfoss 0.65 x 80°s Nozzle (EuroStar 70)	26858





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	Sello File	Trianco Part No.	208072	208077	208078	207296	501808	207292	207291	99466	400966	2000	208069	2 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
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	work	Description	3-Port Circulating-Pump Plate Heat Exchanger	Flow Switch	Mixer Valve	Automatic Air Vent	Pressure Gauge	Flexible Pipe	Expansion Vessel	22mm Ball Valve	22mm Ball Valve	15mm Ball Vaíve	Safety Valve	13 early one - Houghiell harmy	
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