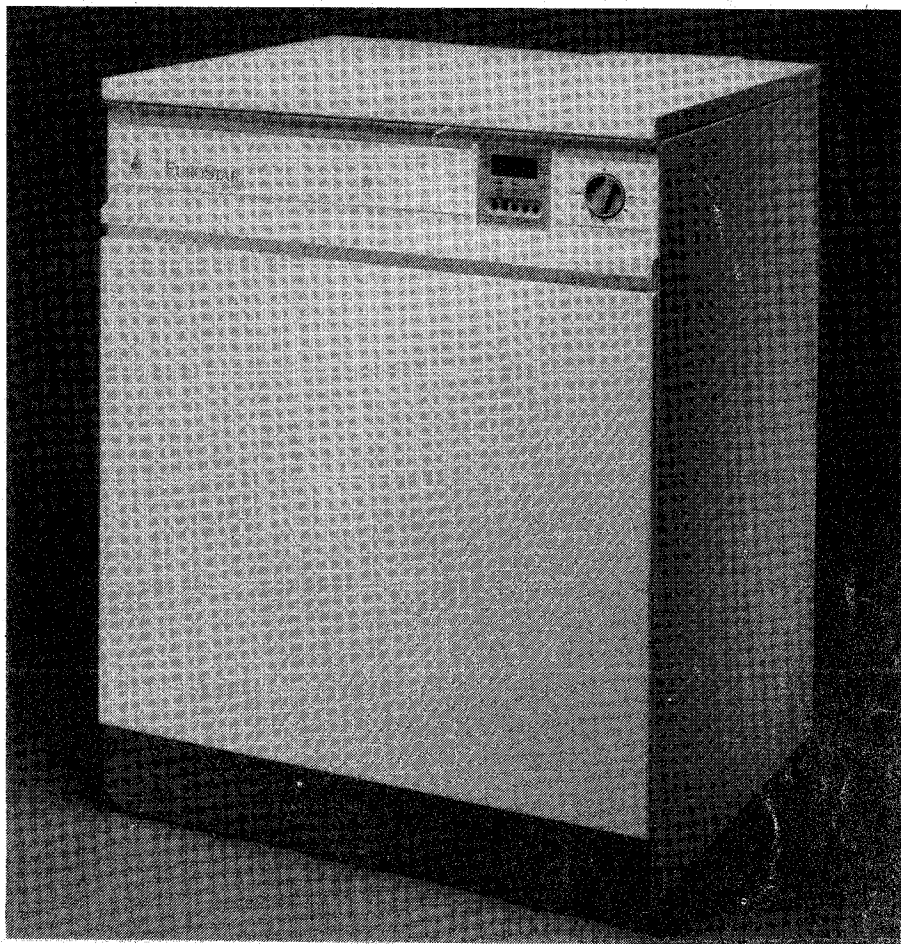


TRIANCO

Eurostar Combi

2234 combi 65
2233 u 20/90



Model shown with optional programmer kit

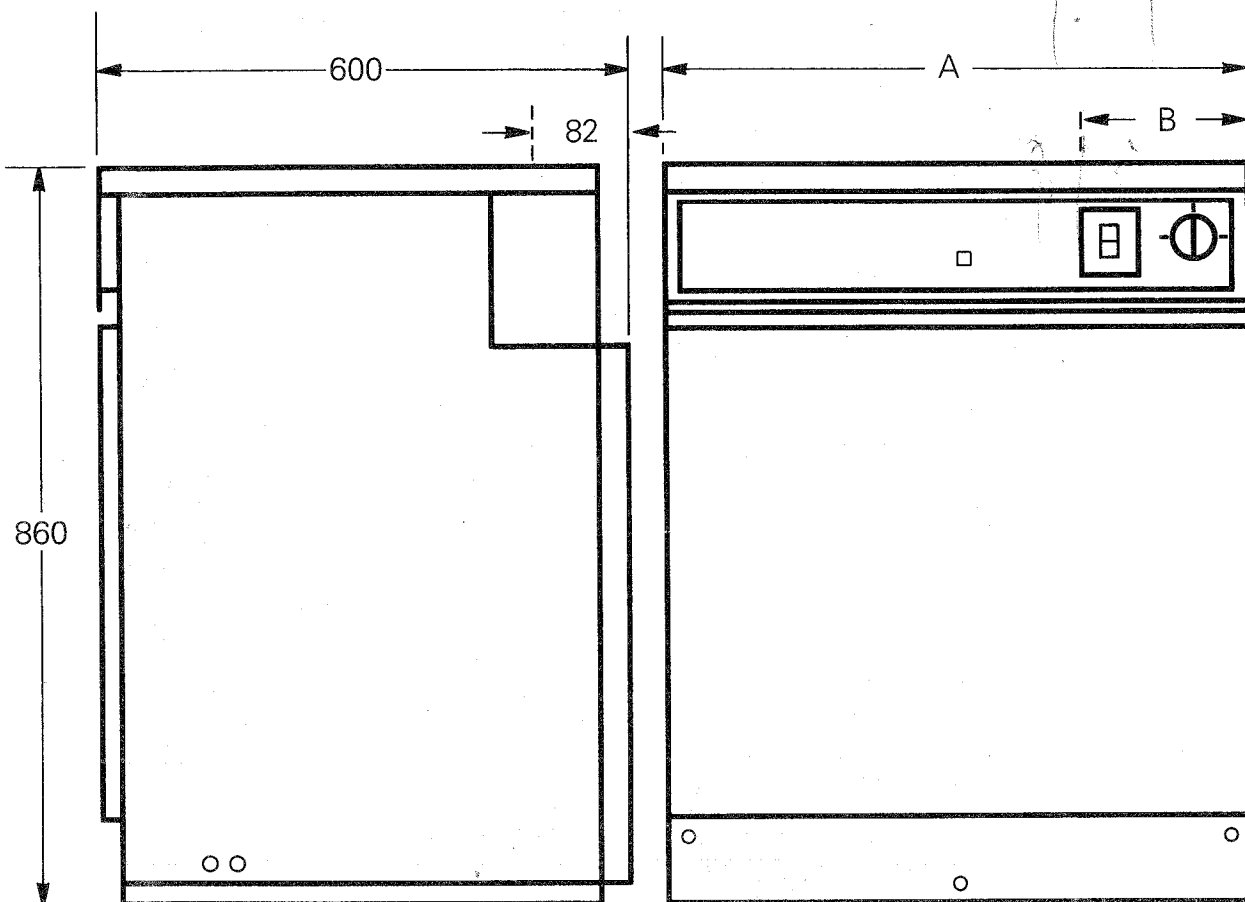
USER INSTALLATION COMMISSIONING & SERVICING INSTRUCTIONS

CE BED 92/42 EEC
EMC 89/336 EEC

To be retained by householder

TECHNICAL DATA

	COMBI 65		COMBI 90	
	METRIC	IMPERIAL	METRIC	IMPERIAL
Rated Input	22.2kw	75,700 Btu/h	30kw	102,300 Btu/h
Rated Output	19.5kw	66,500 Btu/h	27.5kw	93,800 Btu/h
Oil Burner	See Burner detail leaflet			
Weight (empty)	147 kg	324 lb	170 kg	375 lb
Water Content	82.3 L	18.5 gallons	90 L	20.5 gallons
C H Flow & Return	22 mm		22 mm	
DHW Inlet & Outlet	15 mm		15 mm	
Drain off socket	1/2" BSP		1/2" BSP	
Flue Socket Dia (C F)	100 & 125 mm	4 & 5 in	100 & 125 mm	4 & 5 in
Maximum Operating Pressure	3 bar	43.5 psi	3 bar	43.5 psi
Test Pressure	4.5 bar	65.3 psi	4.5 bar	65.3 psi
Water Side Resistance 10°C diff.	64 mbar	25.6 in wg	85 mbar	34 in wg
Water Side Resistance 20°C diff.	22 mbar	8.8 wg	22.5 mbar	9 wg
Overall Height	860 mm	34 in	860 mm	34 in
Overall Width	585 mm	23 in	685 mm	30 in
Overall Depth mm (in)	600 mm	23.6 in	600 mm	23.6 in
Control Thermostat	Ranco ODD Type K36		Ranco ODD Type K36	
Overheat Thermostat	Ranco LM 7 (Manual Reset)		Ranco LM 7 (Manual Reset)	
Tank Control Thermostat	Ranco ODD Type K36		Ranco ODD Type K36	
High Flow Thermostat	Ranco ODD Type K36		Ranco ODD Type K36	
Pump Overrun Thermostat	Ranco ODD Type K36		Ranco ODD Type K36	
Electricity Supply	230V ~ 50 Hz Fused at 5A		230V ~ 50 Hz Fused at 5A	
Pump	Grundfos		Grundfos	
Priority Valve	Danfoss Randall HS A3ND		Danfoss Randall HS A3ND	
Expansion Vessel	Zilmet 10L charge 0.5 bar		Zilmet 10L charge 0.5 bar	
Tank Overheat Thermostat	Ranco LM 7 (Manual Reset)		Ranco LM 7 (Manual Reset)	
Pressure Gauge	0-4 bar		0-4 bar	
Flow Switch	SIKA		SIKA	
Pressure Relief Valve	3 bar		3 bar	
Max. Flow Temp. CH	82°C		82°C	
Flow Rate DHW @ 3 bar			22 Litre	4.9 gal
Flow Rate DHW @ 1.2 bar	18.2 Litre	4 gal		
Available Head System	3 m	9.75 ft	3 m	9.75 ft
Flue Gas Temperature	215°C		215°C	
Required Flue Draught	12.5 mm	0.05 in	12.5 mm	0.05 in
Fuel	Kerosene 28s BS 2869 Class C2		Kerosene 28s BS 2869 Class C2	
Flue Gas Mass Flow Rates	0.0089864 kg/sec		0.0126569 kg/sec	
Starting Current	5.5 amp		5.5 amp	
Running Current	1.2 amps		1.2 amps	
Flue	'C Flue'	4" or 5"	4" or 5"	
slow temp Aqualisa		48°C		



EuroStar Combi	65	90
DIM A	585	685
DIM B	200	226

SPACE REQUIRED FOR INSTALLATION AND MAINTENANCE		
REAR	NIL (mm)	NIL (in)
SIDE LH/RH	20 (mm)	$\frac{3}{4}$ (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.1

OUTLINE DIMENSIONS/CLEARANCES

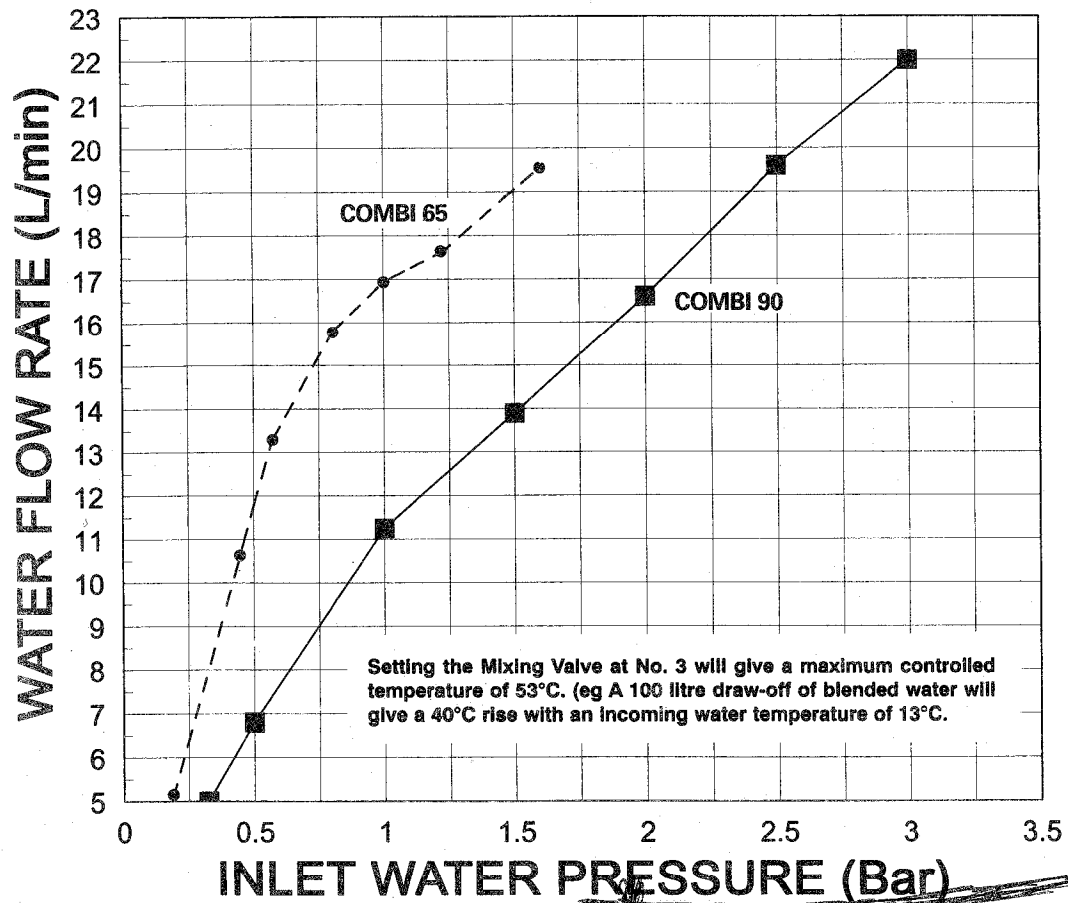


Fig. 3

FLOW GRAPH

Maximum pressure 5.6 bar

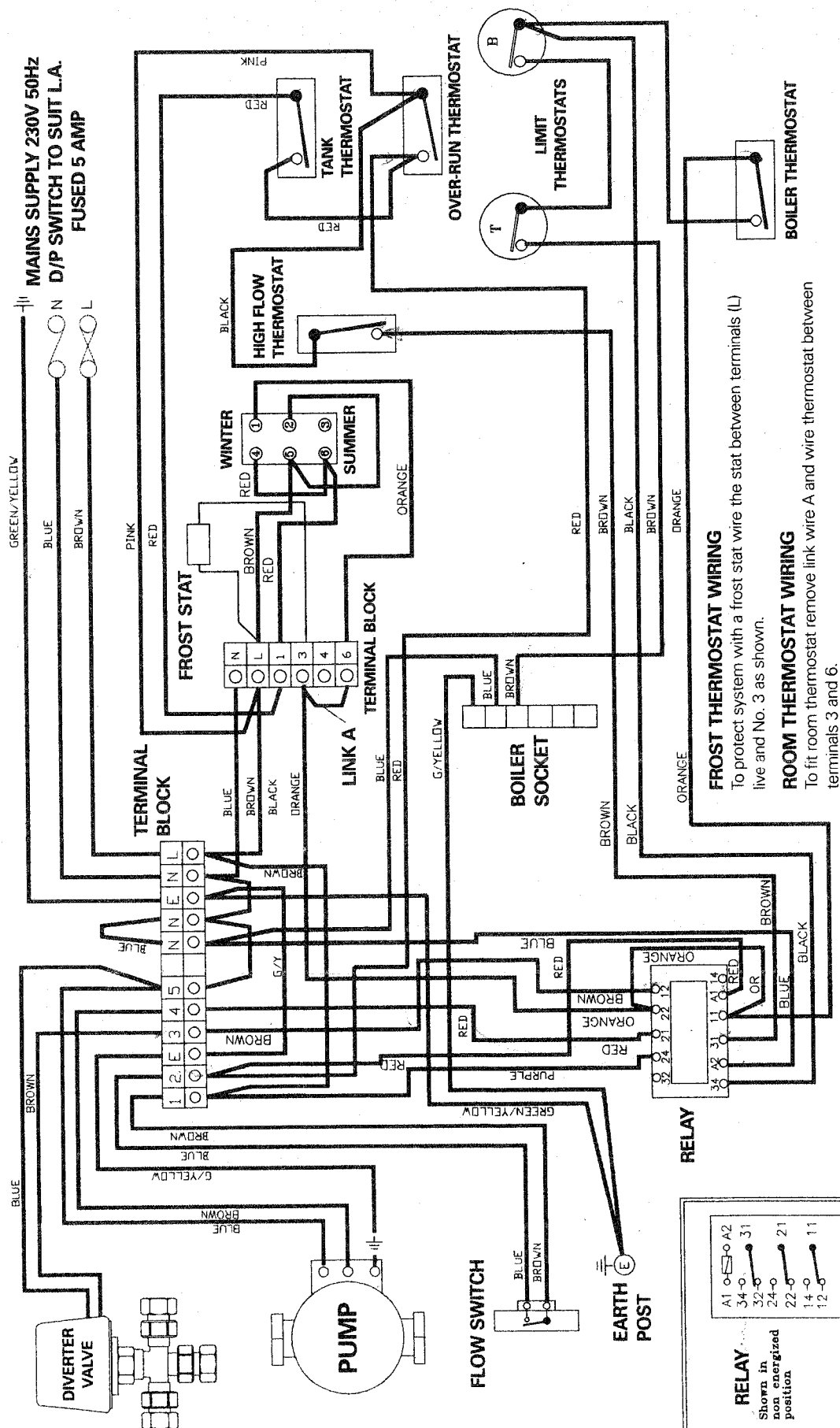


Fig. 4

WIRING DIAGRAM

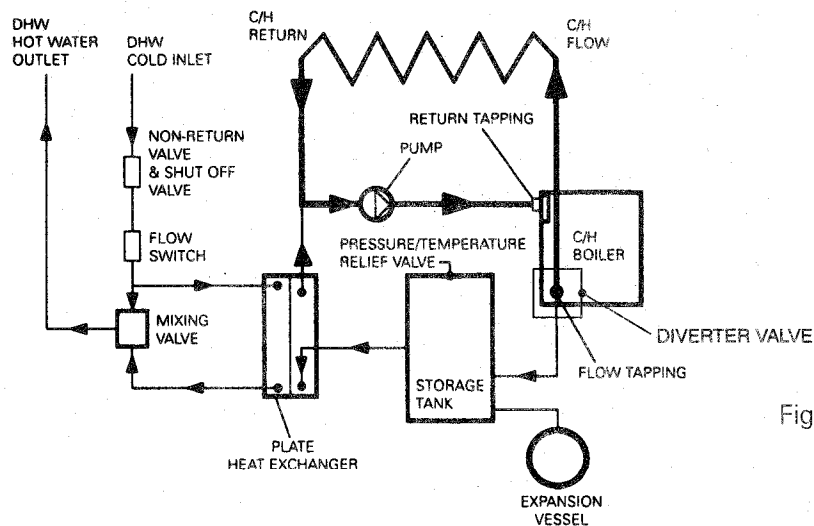


Fig. 5a

EUROSTAR COMBI SCHEMATIC LAYOUT CENTRAL HEATING MODE

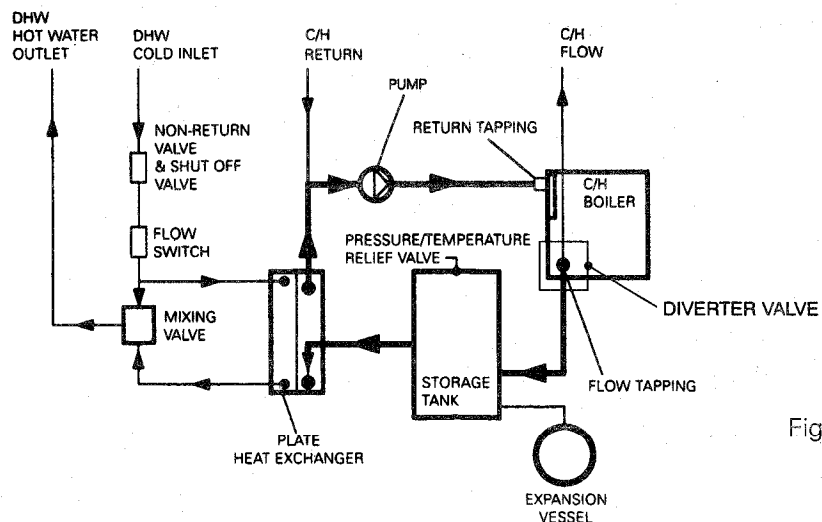


Fig. 5b

EUROSTAR COMBI SCHEMATIC LAYOUT DOMESTIC HOT WATER MODE

EUROSTAR COMBI SCHEMATIC LAYOUT

Fig. 5

Note: appliance incorporates Pump Expansion Vessel, Pressure Gauge, Air Vent and Safety Valve.

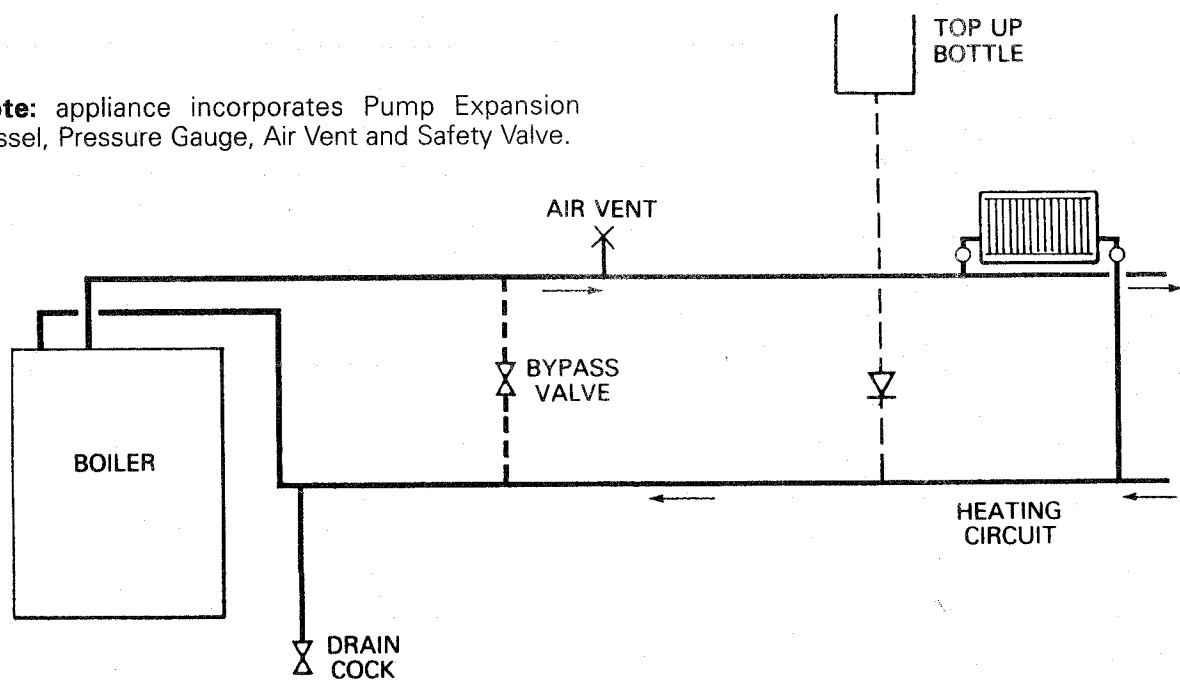


Fig. 6

SEALED SYSTEM PIPING SCHEMATIC DIAGRAM

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 230V - 50Hz electrical supply must be fused by a double pole switch with a contact separation of at least 3mm in both poles, and shuttered socket outlet (both complying with the requirements of BS 1363) adjacent to the boiler. Fuse supply at 5A. The minimum requirement for the power supply cable should be a PVC sheathed flexible cord, at least 0.75mm (24 x 0.2mm) (code designation H05 VV-F or H05 WH2-F) as specified in table 16 of BS 6500.

This appliance **MUST** be earthed and the electrical supply earth cable must be of a greater length than the current carrying conductor cables (ie live and neutral supply cables).

All external cables entering the control box must be secured in position by strain relief bushes supplied (see diagram on how to secure cable)

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

See wiring diagram Fig 4.

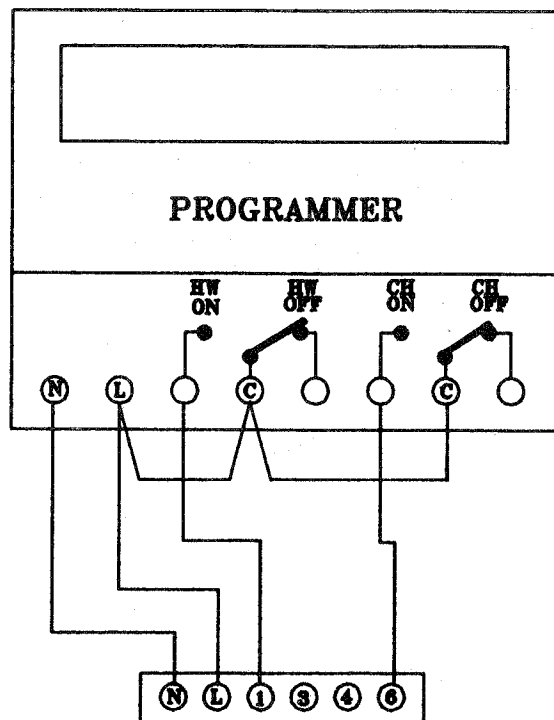
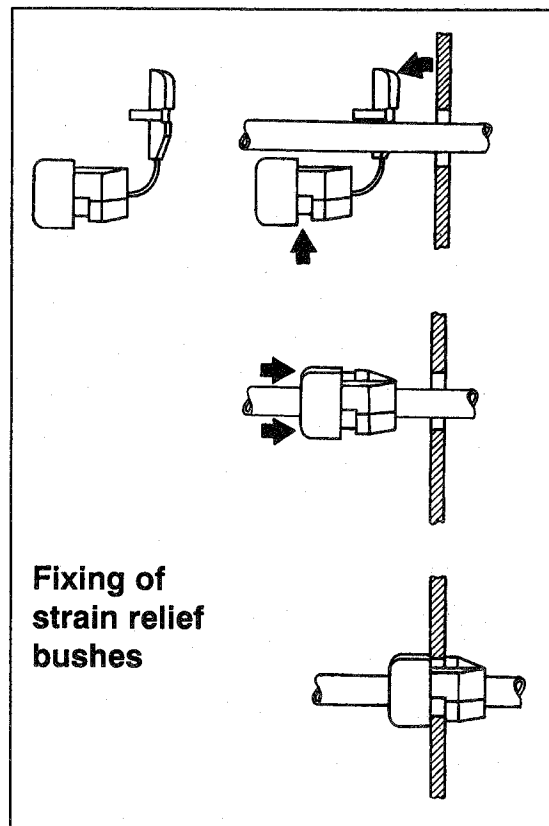
Warning - High and Low Voltage

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.

EURO-COMBI PROGRAMME FITTING INSTRUCTIONS

1. Disconnect summer/winter switch by removing wires from terminal block
2. Rewire external programmer unit into terminal block ensuring identical connections are made (refer to wiring diagram).
3. Programmer must be suitable for gravity systems and set to operate in gravity mode.

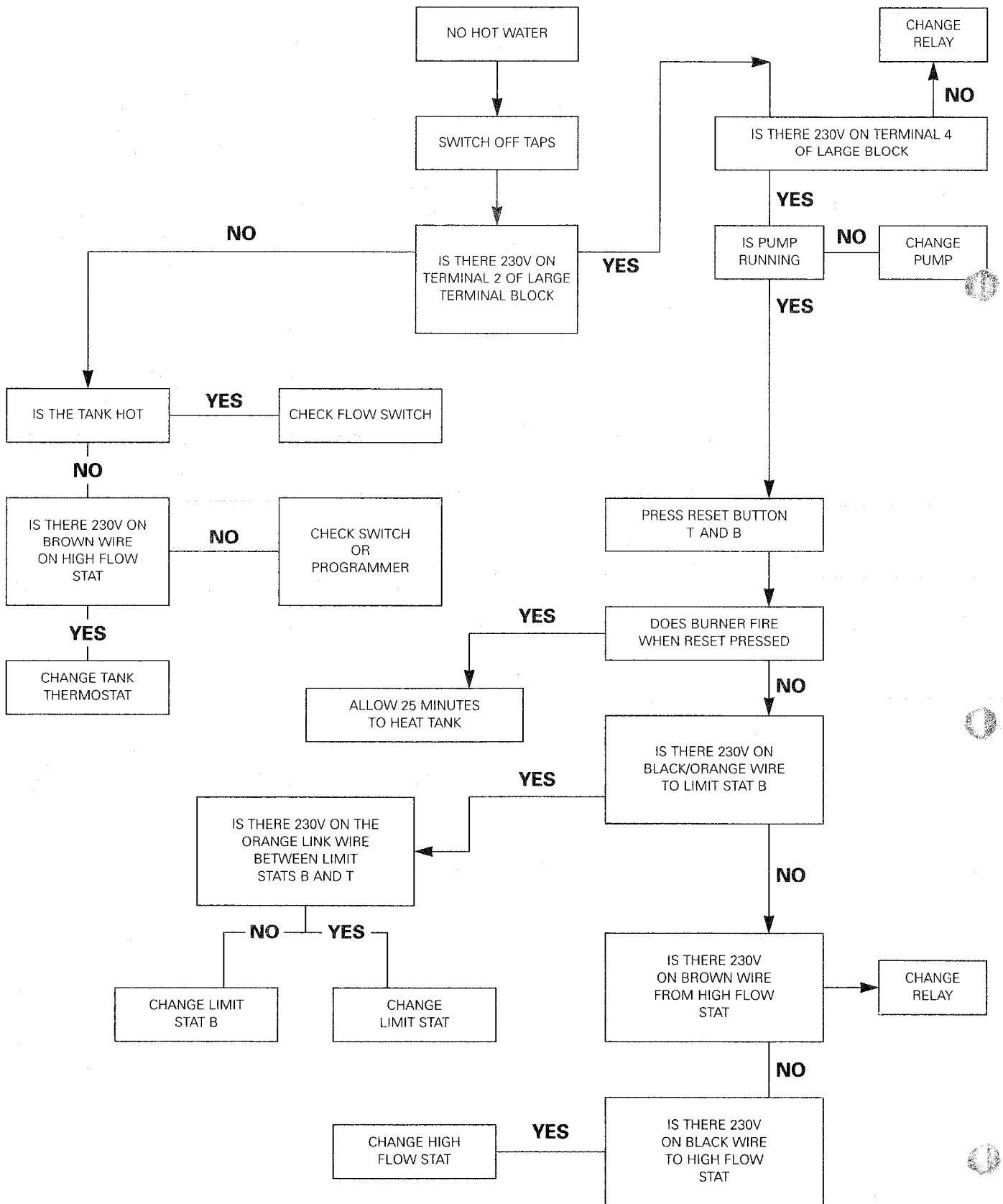
(IF UNCERTAIN CONTACT TRIANCO
TECHNICAL DEPARTMENT)



Hot Water Fault Finding

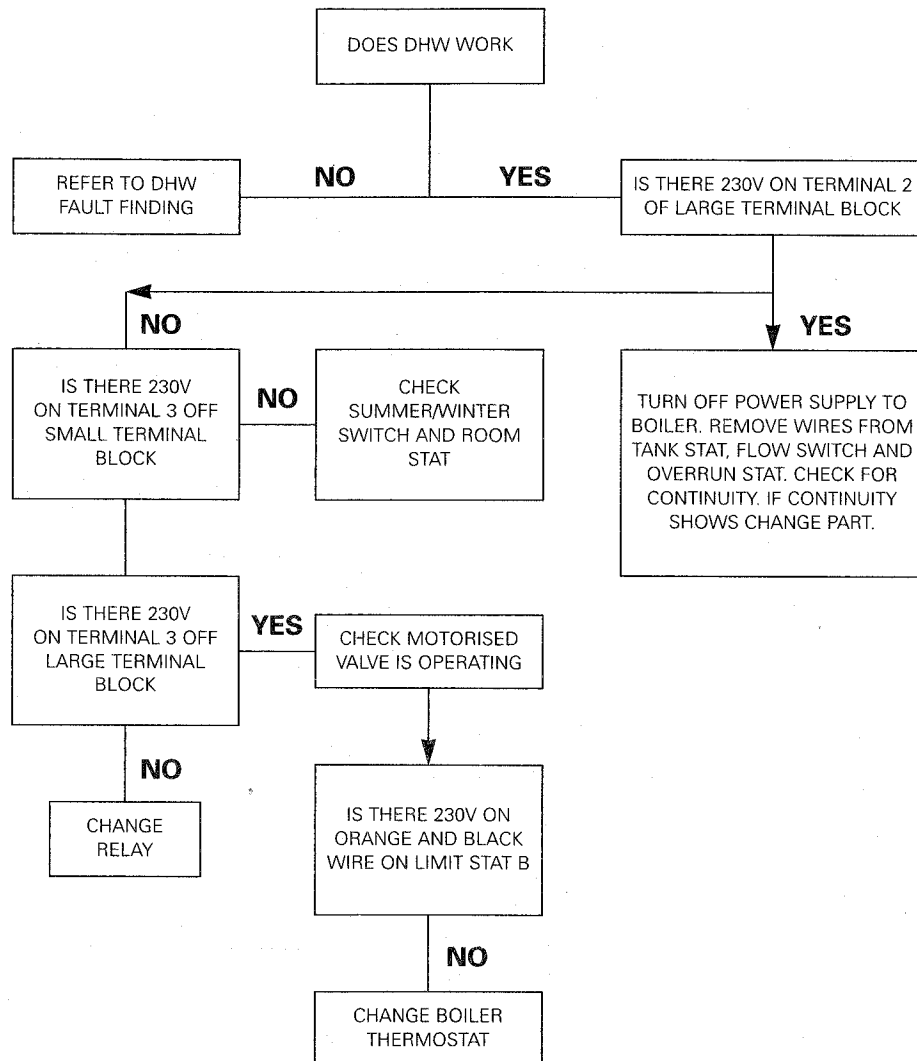
Turn to HW only

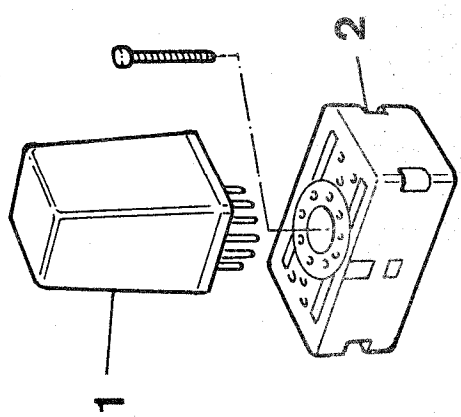
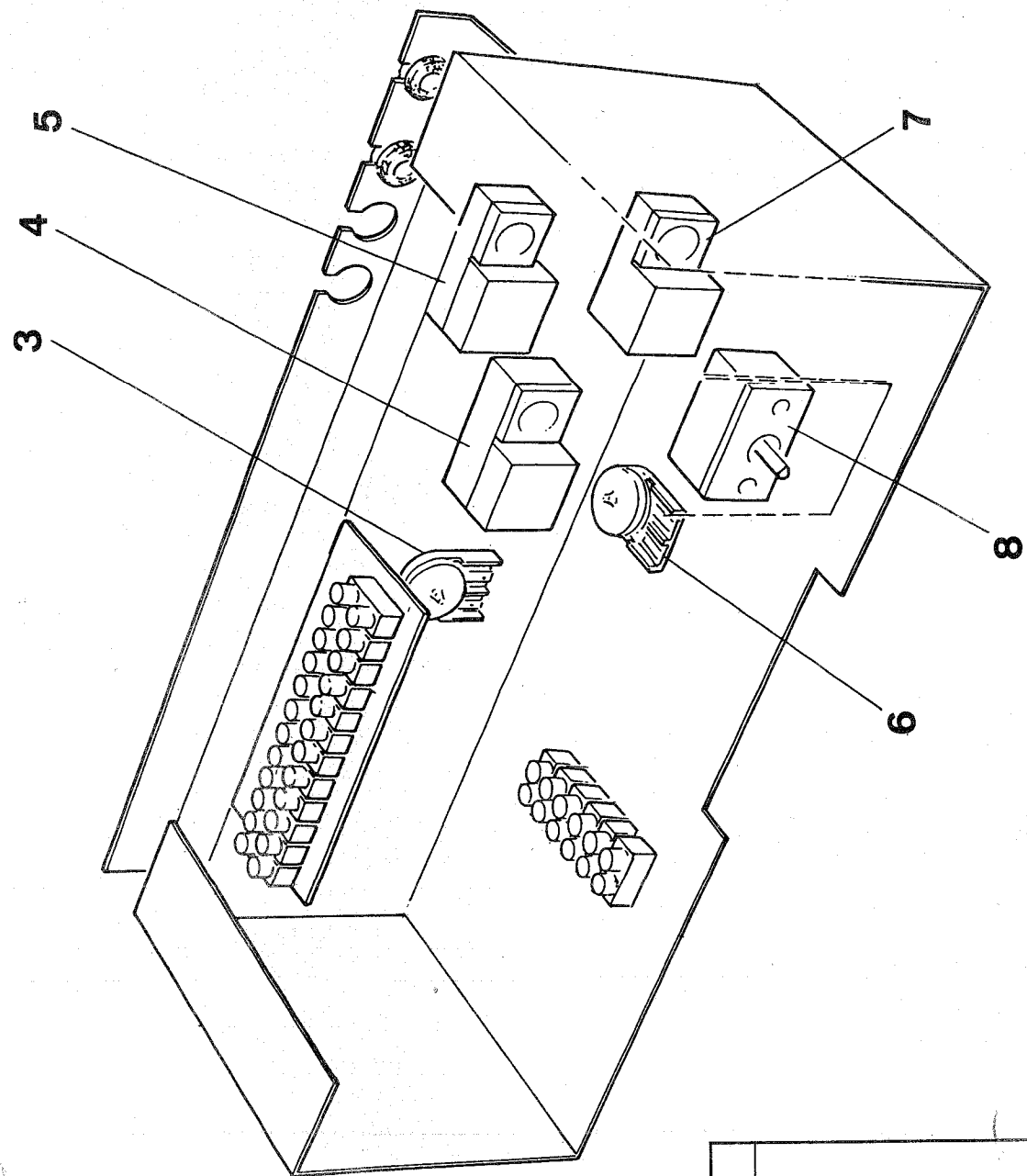
Allow 25 minutes from initial switch on for tank to heat.



Central Heating Fault Finding Chart

Allow 25 minutes from cold for the boiler to satisfy DHW priority.





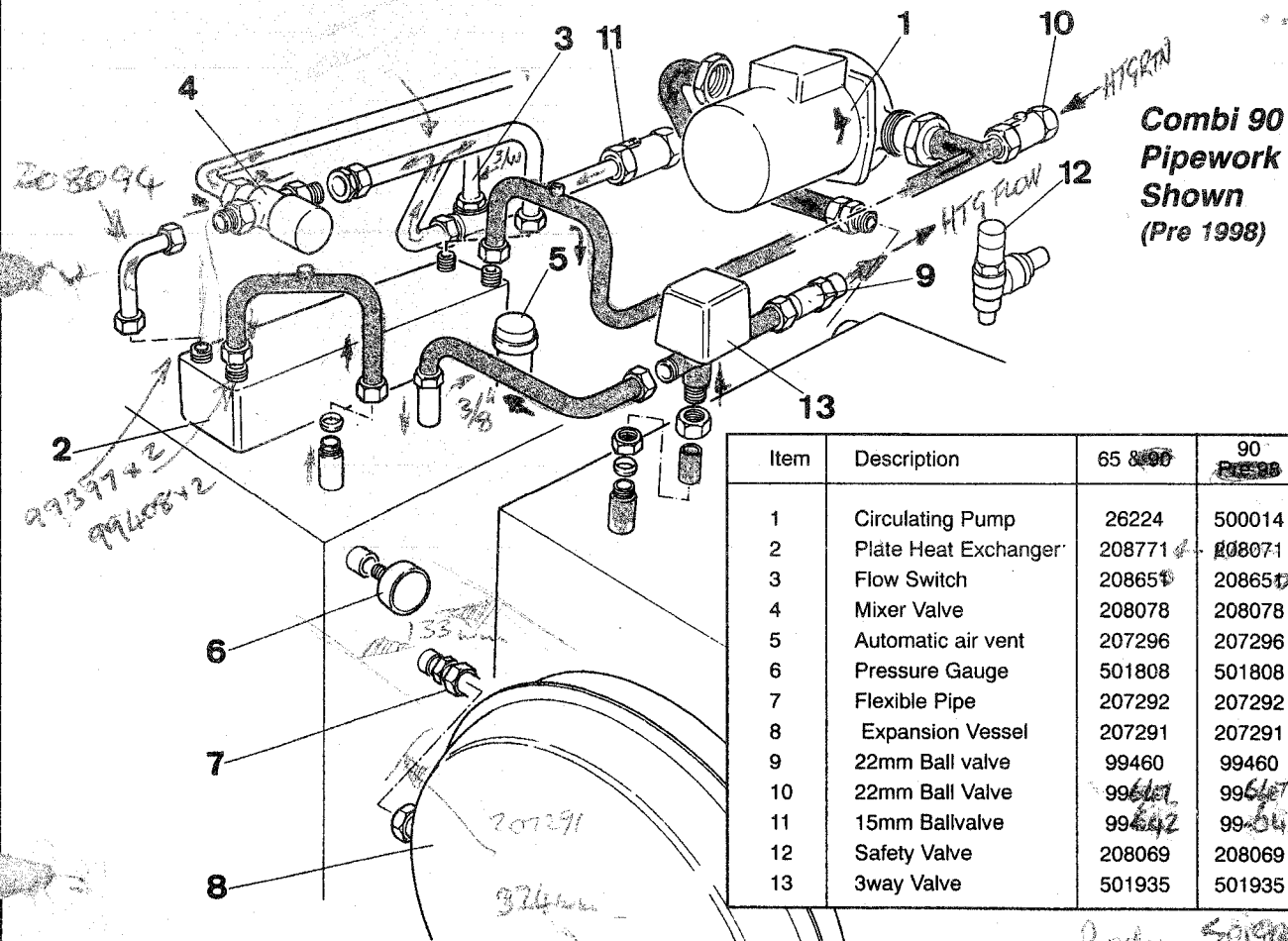
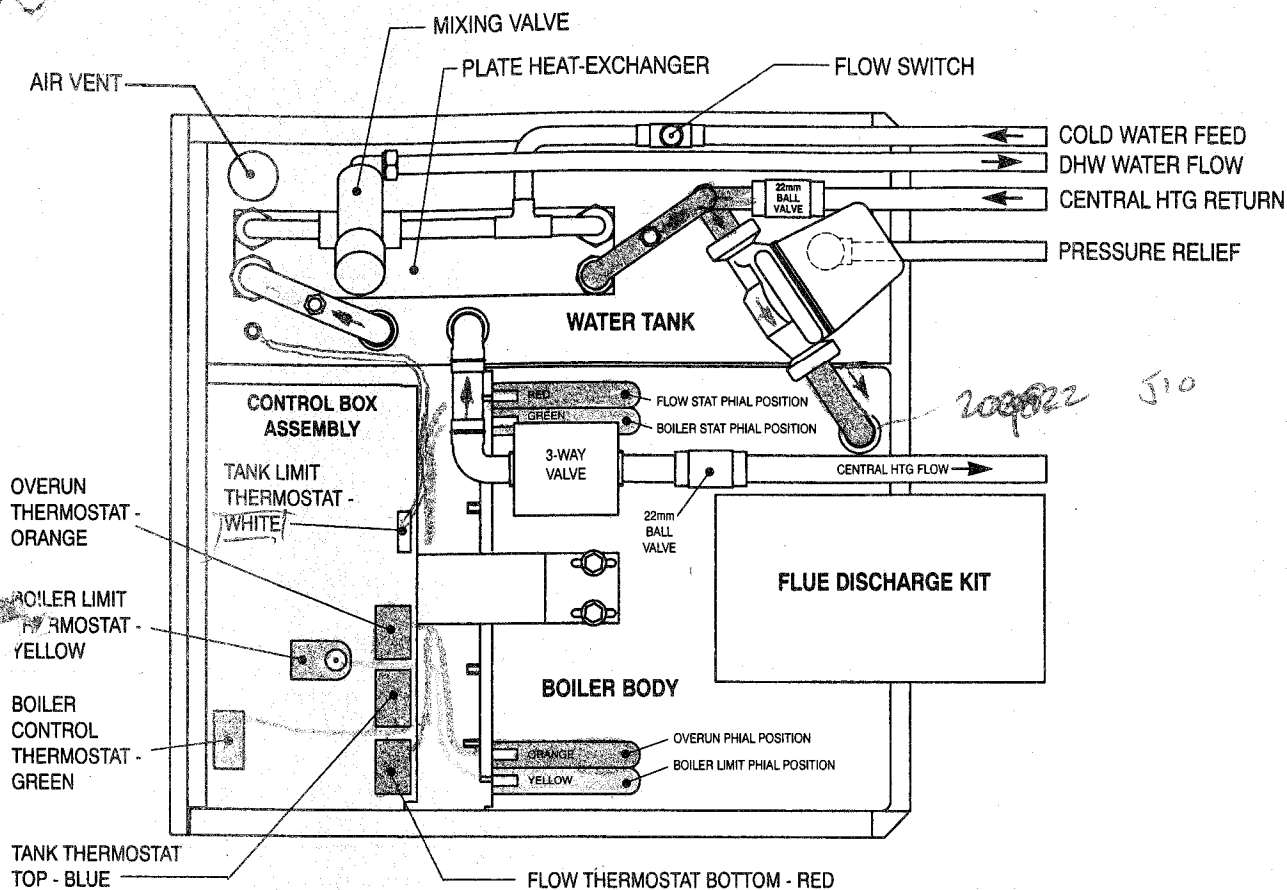
Control Box Assembly

Item	Description	Trianco Part No.
1	Control Box Assembly	208640
2	Relay	54572
3	Relay, Base	501765
4	Tank Limit Stat.	208096
5	Overrun Stat.	208075
6	Tank Thermostat	500039
7	Boiler Limit Stat.	206892
8	Flow Stat.	501767
	Boiler Control Stat.	206896

53° 16 82

206 897

Combi 65 & 90 Pipework Layout



**Combi 90
Pipework
Shown
(Pre 1998)**

Item	Description	65 & 90	90
1	Circulating Pump	26224	500014
2	Plate Heat Exchanger	208771	208071
3	Flow Switch	208651	208651
4	Mixer Valve	208078	208078
5	Automatic air vent	207296	207296
6	Pressure Gauge	501808	501808
7	Flexible Pipe	207292	207292
8	Expansion Vessel	207291	207291
9	22mm Ball valve	99460	99460
10	22mm Ball Valve	99461	99461
11	15mm Ballvalve	99442	99442
12	Safety Valve	208069	208069
13	3way Valve	501935	501935

Body 501930
Head 601938