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Gas conversion Maintenance Operating faults Options Parts lists

THI 2-17 C DC THI 5-25 C DC





H N C A L N S T R U C T O N

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I - GAS CONVERSION

Check that the boiler is properly adapted to the gas used, otherwise change the gas.

1 - GAS CHANGE



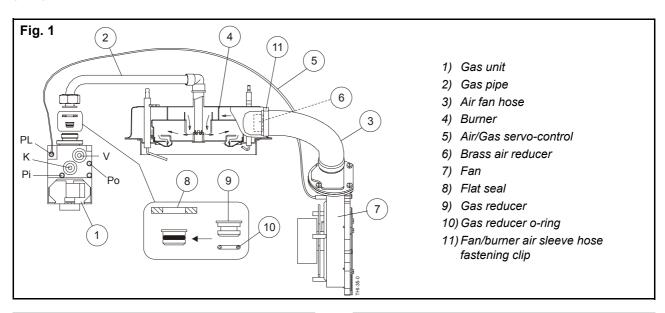
This operation must be carried out by a qualified person equiped with a calibrated combustion analyser.

Prior to any servicing cut the electrical and gas supplies.

The boiler is preset in the factory for natural gas H (G20) 20 mbar.

When changing the gas, the "gas setting" label that is in the gas conversion set must be fixed on the inside of the boiler so as to indicate the new setting.

Check the gas circuit for leak tightness after each intervention on the boiler.



1.1 - Conversion from natural gas to Propane

1.1.1 - THI 5-25 C DC models only

 Conversion to propane (G31) requires the gas conversion set (ref : V07.31649)

Refer to the installation instructions of the gas conversion set

1.2 - Conversion from propane to natural gas

1.2.1 - THI 5-25 C DC models only

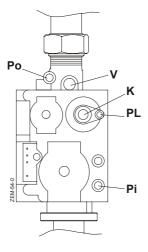
Conversion to natural gas requires the gas conversion set (ref: V07.31650)

Refer to the installation instructions of the gas conversion set

2 - GAS/CO₂/CO/NO_X FLOW CONTROL AND SERVICE PRESSURE CONTROL

Fig. 2

GAS VALVE SIEMENS/LANDIS ref : VGU87A0236



 P_i = Network gas pressure

Natural gas H (G20) : 20 mbar,

Propane (G31): 37 mbar.

 P_0 = Outlet gas pressure to the burner.

PL = Air pressure control (fan/gas-valve)

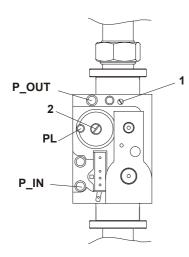
V = Adjust the slope of the characteristic of the air/gas ratio only when the burner is at high rate. This setting is carried out in the factory for natural gas type H (G20). This means that the pressure Po can be changed to obtain the required gas flow (section 2.2 - page 6 - chapter I - GAS CONVERSION - SER-VICING MANUAL).



Screw to increase the gas flow

K = Adjust the parallel shift of the characteristic of the air/gas ratio only when the burner is at low rate. This screw is pre-set in the factory. Its setting must not be normally modified even for changing gas. If however an adjustment is required, it may be carried out with a low scale pressure gauge 0-10 mmCE, and a CO2, CO analyser. Screw to increase the gas flow.

GAS VALVE SIT ref: 848 SIGMA



P_IN =Network gas pressure

Natural gas H (G20): 20 mbar, Propane (G31): 37 mbar.

P_OUT = Outlet gas pressure to the burner.r.

PL = Air pressure control (fan/gas-valve)

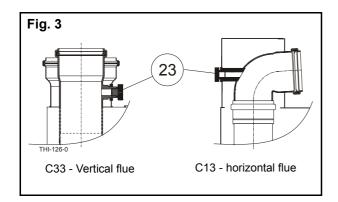
1 = Adjust the slope of the characteristic of the air/gas ratio only when the burner is at high rate. This setting is carried out in the factory for natural gas type H (G20). This means that the pressure "P_OUT" can be changed to obtain the required gas flow . (section 2.2 - page 6 - chapter I - GAS CONVERSION - SERVICING MANUAL).



Screw to descrease the gas flow

2 = Adjust the parallel shift of the characteristic of the air/gas ratio only when the burner is at low rate. This screw is pre-set in the factory. Its setting must not be normally modified even for changing gas. If however an adjustment is required, it may be carried out with a low scale pressure gauge 0-10 mmCE, and a CO2, CO analyser

To modify the setting, if it is required, take off the protection screw, and **screw to increase the gas flow**. When the adjustments are realized, reset the protection screw.



B₂₃ chimney flue :

Combustion control is carried out on the combustion product outlet system external and directly at the boiler outlet (with the boiler unit assembled).
 This opening must be closed again after checking

C₁₃ - C₃₃ balanced flue :

 Combustion control is carried out on the boiler through the opening (23) provided for this purpose after the cap is removed. This opening must be closed again after checking.

2.1 - Surveillance procedure

- To commission the burner:
 - Activate the regulator shut-down function service key (6) (section 3.11 page 18 chapter III OPERATION INSTALLATION MANUAL):
 - . the code [] [] flashes on the display screen (13),
- Gradually position the d.h.w. potentiometer (3) to the maximum on the right:
 - the burner switches to max. rate,
- Gradually move the V or 1 adjustment screw of the gas unit (fig. 2 - page 4 - SERVICING MA-NUAL) to obtain a stable flame.
- Check the CO₂/CO ratio (see setting table section 2.2 - page 6 - chapter I - GAS CONVER-SION - SERVICING MANUAL),
- Set the d.h.w. potentiometer (3) to the maximum on the left:
 - · the burner switches to the minimum rate,
- Check the CO₂/CO ratio (see setting table section 2.2 - page 6 - chapter I - GAS CONVER-SION - SERVICING MANUAL),
- If necessary:
 - adjust screw K or 2 (fig. 2 page 4 SERVI-CING MANUAL) (tightening and untightening increases and decreases gas flow).



Before starting the minimum rate setting (V or 1 and K or 2 screws), wait for a stable CO₂/CO analyser read-out. Repeat switching from the minimum rate to the maximum rate several times to ensure that the setting has been done properly.

- to return to normal operation, press on the sweep key (rep. 6) for 3 seconds then release it.

Note:

Remember to reposition the d.h.w. potentiometer
 (3) to its initial value to return to the required d.h.w. setting.

2.2 - Setting table

Models		THI 5-25 C DC	
Natural gas burner type		X07.36238	
Heat output	30/50°C 60/80°C	kW kW	5.4/25.8 4.8/23.9
Heat input		kW	5.0/24.5
Ø Gas reducer	Nat Gas H Propane	mm	5.75 4.65
Ø Air reducer	Nat Gas H Propane	mm	29 27
Gas flow (15°C, 1013 mbar)	Nat Gas H Propane G31	m ³ /h	0.53/2.59 0.39/1.90
Gas pressure P _o / P_OUT (gas unit to burner)	Nat Gas H Propane	mbar	0.35/4.50 0.35/4.50
Servo-system air pressure (PL)		Ра	40/600 40/600
CO ₂ Emission	Nat Gas H Propane	%	8.0-8.5/9.0-9.5 10.0-10.5/10.5-11.0
CO Emission	Nat Gas H Propane	ppm	0/20 0/40

- Combustion product evacuation outlet back pressure: 0 mmCE.
- P_o / P_OUT = Gas pressure at the gas valve regulator outlet.
- **PL** = Servo-system air pressure (fan gas unit).
- The Po / P_OUT and PL values may be more or less high according to whether back pressure is greater or smaller.

II - MAINTENANCE

The annual inspection of the boiler and of the combustion product outlet is compulsory and validates the warranty. It must be carried out by a qualified person.

Spare parts must be ordered by using the references listed in chapter V - PARTS LISTS - page 17 - SERVICING MANUAL, and specifying the type and serial number of each part.

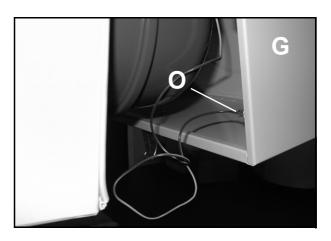


Before any servicing, cut the power supply. Close the gas inlet of the boiler and the isolation valves if required.

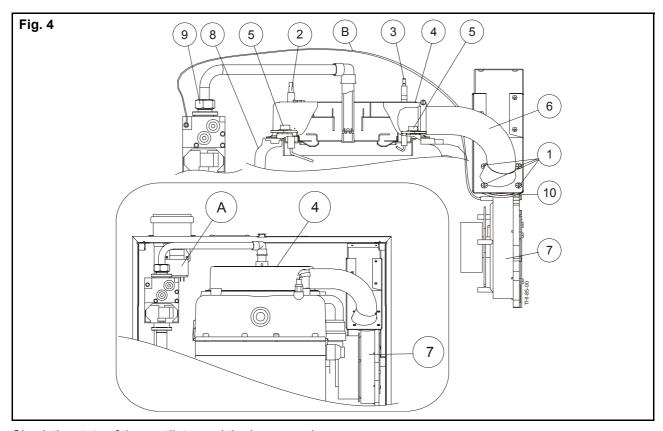
If the boiler is removed, provide a port at the end of the gas piping.



Remove the front panel (item G) from the boiler and disconnect the earth wire (item O).



1 - SERVICING THE FAN AND THE BURNER



Check the state of the ventilator and the burner and clean them if necessary (following their service instructions).

Disassembling the burner/fan unit:

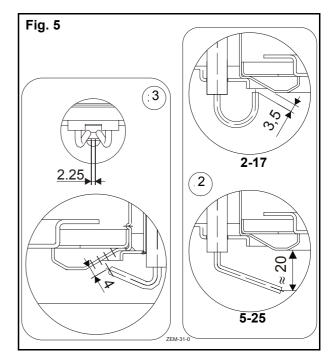
- Electrically disconnect the burner/fan unit:
 - remove the 2 cable lugs connecting the ignition electrode (3) to the ignition transformer (A),
 - remove the cable lug connecting the ionising electrode (2) to the X2-05 terminal of the boiler control panel,
 - remove the fan (7):
 - . from the connector of the fan power cord,
 - . from the connector of the fan's PWM signal,
- disconnect the air/gas servo-system (B) from the gas valve,

Disassembling the fan:

- Unscrew the four screws (1) fixing the fan (7) to the burner's air sleeve (6),
- Clean it using a domestic vacuum cleaner by placing the suction device over the air inlet and outlet successively.

Disassembling the burner:

- Unscrew the four screws fixing (5) the burner (4) to the boiler shell (8),
- Disassemble the nut (9),
- Clean the burner (4) using a domestic vacuum cleaner by placing the suction device over the air inlet and the gas inlet successively,
- Check the ignition electrodes (3) and the ionisation electrodes (2).



When fitting back the burner/fan unit:

- Replace the seal at the level of the nut (9) and check that there are no gas leaks,
- when fitting the fan back onto the boiler:
 - check that the fan/burner seal (10) is correctly positioned,
 - check that there is no leakage at this seal and replace it if necessary.
- check that the burner (4) and boiler shell (8) have no leaks - replace the seal if necessary.

2 - SERVICING THE HEAT EXCHANGER OF THE BOILER SHELL

The heat exchanger must be cleaned once the burner has been disassembled (section 1 - page 7 - chapter II - MAINTENANCE - SERVICING MANUAL).

- Sprinkle the heat exchanger with water. The water is evacuated through the condensate evacuation siphon,
- when reassembling the burner onto the boiler shell check the correct positioning of the gasket.

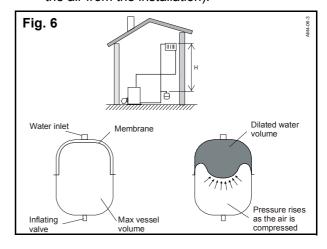
3 - CHECKING ACCESSORIES

- Check that the safety and control devices (3 bar safety valve, air bleed, safety control box, etc.) are operating properly.
- Clean the condensate drain siphon and then fill it with water.
- Also check that neither the installation nor the boiler present any water or fuel leaks (leaks may
- produce a risk for safety and shorten the lifespan).
- When it is frequently necessary to add water to maintain pressure in the installation, even though no leaks have been discovered, perform an expansion vessel check (section 4 - page 9 chapter II - MAINTENANCE - SERVICING MA-NUAL).

4 - EXPANSION VESSEL PRE-INFLATION PRESSURE CHECK

- Drop the pressure in the heating installation by opening the drain cock or the safety valve (pressure gauge reading under 0.5 bar).
- Check the pressure in the expansion vessel and if necessary bring it back up to pressure, or replace it if the membrane is punctured (water present in the inflating valve).
- To optimise the efficiency of the vessel:
 - adjust its pre-inflation pressure in line with the installation. It must correspond to the static height of the installation (H) expressed in bars (height between the highest point of the installation and the expansion vessel, with 10 metres = 1 bar),
 - adjust the filling pressure of the installation to a value of over 0.2 bar above the pre-inflation

pressure of the vessel (after totally bleeding the air from the installation).



5 - COMBUSTION PRODUCT CONDUITS (FLUE)

Check the combustion product evacuation conduit and the air inlet conduit at least once a year

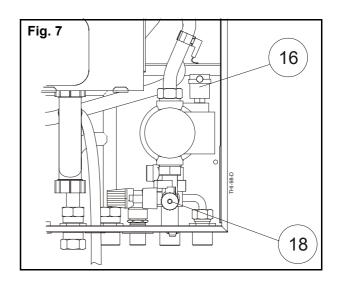
(airtightness of the parts that may be disassembled - conduits not obstructed).

6 - DRAINING

- Cut the power supply,
- turn off the gas cock,
- turn off the heating flow/return valves (if they are fitted),
- connect the drain valve (item. 18) to the sewage system,
- open the drain valve.



Ensure that the air bleed (16) is open, as soon as the pressure gauge indicates a zero pressure to allow air to enter the boiler shell.



7 - SENSOR RESISTANCES

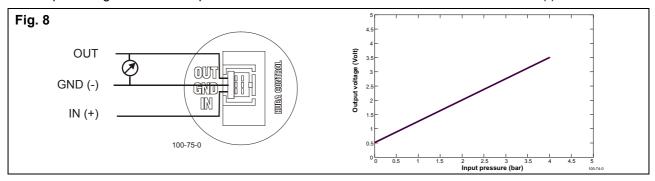
The resistance of the sensors must be measured after they have been disconnected from the control panel.

	Resistance values of the sensors
Temperature	1 st & 2 nd circuit heating outlet sensor Boiler return sensor Domestic hot water sensor Flue gas sensor
0.00 °C	32624
10.00 °C	19897
15.00 °C	15711
20.00 °C	12493
25.00 °C	10000
30.00 °C	8056
40.00 °C	5324
50.00 °C	3599
60.00 °C	2483
70.00 °C	1748
80.00 °C	1252
90.00 °C	912

	Resistance values of the sensors
Temperature	Outside sensor
-20.00 °C	7578
-15.00 °C	5861
-10.00 °C	4574
-5.00 °C	3600
0.00 °C	2857
5.00 °C	2284
10.00 °C	1840
15.00 °C	1492
20.00 °C	1218
25.00 °C	1000
30.00 °C	826,8
35.00 °C	687,5

8 - PRESSURE SENSOR

The output voltage on the water pressure sensor is measured between the terminals GND (-) and OUT.



III - OPERATING FAULTS

1 - OPERATING FAULTS LIST

Display A0	Description	Solution
10	Outside sensor fault	Check that the sensor is correctly fitted and connected
20	Boiler sensor 1 fault	Check that the sensor is correctly fitted and connected
28	Flue gas detector fault	Check that the sensor is correctly fitted and connected
32	Flow sensor 2 fault	Check that the sensor is correctly fitted and connected
40	Return sensor 1 fault	Check that the sensor is correctly fitted and connected
50	Domestic hot water sensor 1 fault	Check that the sensor is correctly fitted and connected
5 /	Room device 1 faulty	Check the boiler connections
<i>62</i>	Room device 1 error or radio clock error	Check compatibility of the room device or clock
78	Water pressure sensor fault	Check the connections of the pressure sensor
8 1	Short-circuit on LPB or no voltage	Check the wiring
82	Two identical addresses on the LPB	Check the addressing
9 1	Loss of data in the EEPROM	Change the LMU
92	Component fault in the LMU	Change the LMU
88 00	Two master clocks (only one normally), programming problem	Check parameter 96 of the QAA73 (only one device can have the message "QAA73")
88 05	Maintenance alarm	Check the maintenance code value, QAA 73 setting 726 (section 2 -page 13 - chapter III - OPERATING FAULTS - SERVICING MANUAL)
88 10	STB (2nd circuit or boiler overheating safety) activated	Check that the 2nd circuit overheating safety is connected (X3-01) and check whether the installation water flow is sufficient (circulating pump, isolation valve, etc.)
88 11	Response of the safety thermostat	Check whether the installation water flow is sufficient (circulating pump, isolation valve, etc.)
88 13	Flue gas alarm displayed (problem of the flue gas temperature being too high)	Check whether the boiler is not on thermal overload or that the exchanger is not clogged
88 17	Water pressure too high	Check and adjust the pressure level if necessary with P < 4 bar
88 18	Water pressure too low	Check and adjust the pressure level if necessary with P > 0.4 bar

Display A0	Description	Solution
BB 28	Flame failure while the boiler is operating	Check and adjust the gas valve, check the ionisation electrode and the connections, possible live-neutral inversion of the transformer supply
88 29	Poor air supply	Check the ventilator and the air inlet
88 30	Maximum flue gas temperature exceeded	Check whether the boiler is not on thermal overload or that the exchanger is not clogged
88 32	Safety device activated	Check that shunt X10-03 is present and that the wires are properly connected
BB 38	No flame formed after the safety time period	Check that the gas reaches the boiler (Pi), check the condition of the gas valve, if there is a major adjustment fault on the gas valve, check the condition of the transformer, cables, ignition electrode, ionisation current value
88 40	Segment number or unauthorised addressing on LPB or LMU	Check the addressing consistency
88 48	Incompatibility between the LMU and LPB	Check the addressing consistency
8851	New LMU configuration	Check the b0 internal code
88 52	LMU setting error	Check the b0 internal code
88 53	The boiler is blocked	Press Reset to clear the message
88 54	Violation of the plausibility criteria (STB related criteria)	Check the value of the criteria related to the boiler overheating security
88 60	The minimum speed threshold of the fan is not reached	Check the wiring of the fan and LMU, ensure that the fan is turning correctly
88 5 1	The maximum speed threshold of the fan is exceeded	Check the mains supply and the fan cable connections
88	The service function is active	-
88	The regulator shut-down function is active	-
83	The boiler is in setting mode	This appears after one or more settings are loaded either by the QAA73 or by the PC TOOL. This means that a reset is necessary to validate the new setting(s) and for the boiler to return to normal operating.
88 84	Modem function is active	-
88 85	"Controlled screed drying" function is active	-

Note:

- The **last 5 working faults** are accessible through the QAA 73, from LMU version 3.00, lines 728 /

 $729\,/\,730\,/\,731\,/\,732.$ The last saved fault code is displayed at line 728.

2 - MAINTENANCE

Maintenance alarms can be automatically triggered, indicating that maintenance jobs are due. The following reasons for maintenance alarms can be delivered:

- Interval of burner hours run since last regular service visit exceeded.
- Interval of the number of startups since last regular service visit exceeded.
- Number of months since last regular service visit exceeded.

The alarm displayed is always the maintenance alarm that occurred first.

There is no storage for the maintenance alarms since all pending alarms can be checked at any time via the counter readings or the relevant parameters.

2.1 - Maintenance alarm

If a maintenance alarm occurs, an error code "105 maintenance" appears on the dipslay of the boiler and / or room unit.

This code does not give precise information on maintenance but is only a general maintenance note.

These maintenance alarms are a priority lower than that of the error codes to ensure the error codes prevail.

The maintenance alarm is sent until the enduser has acknowledged the message or the heating engineer has rectified the fault.

2.2 - Maintenance code

The maintenance alarm does not provide detailed information about the reason for the fault. Details can be displayed using parameter "WartungsCode" (QAA 73 setting: 726).

Le maintenance code can also be viewed on the display of the boiler (b0).

2.3 - Coding of maintenance alarms

Maintenance alarm	Maintenance code	Internal error code b0	Meaning
_	0	_	No maintenance alarm
105	1	560	Burner hours run
105	2	561	Startups
105	3	562	Months-service

2.4 - General activation of maintenance alarms

Parameter "WartungsEinstellungen" (QAA 73 setting: 630) permits or suppresses the generation of maintenance alarms.

The subdivision of parameter "WartungsEinstellungen" by bit is shown in the following table :

Bit0	1 = general activation of maintenance alarms
Bit1	1 = single reset of hours run maintenance alarm
Bit2	1 = single reset of startup maintenance alarm
Bit3	1 = single reset of months- service maintenance alarm
Bit6	1 = total reset for all maintenance alarms

2.5 - Activation of the individual maintenance alarm

Every cause can be individually activated or deactivated by entering the associated limits.

- Burner hours run:

Burner hours run maintenance is activated by setting parameter "BetrStdWartGrenz" (QAA 73 setting: 625) to a value other than "0".

This value represents the target number of hours run. When this limit is reached, a maintenance alarm will be delivered (interval since last service visit).

- Number of startups:

Startup maintenance is activated by setting parameter "InbetrSetzWartGrenze" (QAA 73 setting : 626) to a value other than "0".

This value represents the target number of startups. When this limit is reached, a maintenance alarm will be delivered (interval since last service visit).

- Months (service):

Service maintenance is activated by setting parameter "MonatWartGrenze" (QAA 73 setting : 627) to a value other than "0".

This value represents the target number of months. When this limit is reached, a maintenance alarm will be delivered (interval since last service unit).

Note:

- The month counter is only active when the device is connected to power.

2.6 - Acknowledgement of maintenance alarms

The acknowledgement sets the internal error code "b0" and the fault statut message to "0", but the maintenance code still gives the precise reason for the maintenance alarm.

2.6.1 - Acknowledgement via QAA 73

For the parameter "WartungsQuittierung" (QAA 73 setting: 629) (defaut value: 0), to acknowledge the maintenance alarm the heating engineer (or the enduser) enters the value of "1".

If no repetition is required, all maintenance alarms after this acknowledgement will be locked, even if other reasons for maintenance occur. In that case, parameter "WartungsQuittierung" remains constantly at 1.

2.6.2 - Activation of the repetition after acknowledgement

If required, a timer (duration of repetition) can be started, that is, the maintenance alarm will reappear on the display after a certain period of time. An acknowledgement can also be made then. This period of time starts after each acknowledgement.

The repetition can be set via parameter «WartungsRepetitionsDauer» (QAA 73 setting 633).

Contents of parameter «WartungsRepetitions-Dauer» is the desired period of time (in days) until the maintenance alarm appears again.

If a value other than «0» is entered there, a repetition is made within the entered duration of the repetition time.



During this period of time, no more maintenance alarms will appear, even if other reasons for maintenance occur.

2.7 - Resetting the maintenance alarms

Resetting can take place at any time, and after acknowledgement or during the repetition sequence.

A reset can be made in 1 of 2 ways:

- Total reset :

Here, all maintenance alarms can be reset at the same time. If, in parameter «WartungsEinstellungen» (QAA 73 setting 630), «1» is entered, all maintenance counters will be set to «0» when the parameter is saved.

The maintenance counters of the hours run, startups and months maintenance alarms will be newly started.

- Individual resert of a certain maintenance alarm:

Individual maintenance alarms can also be reset. In that case, parameter «WartungsEinstellungen» (QAA 73 setting: 630) will again be addressed bit by bit.

There is a bit available for each maintenance alarm via which this maintenance alarm can be reset (section 2.4 - page 13 - chapter III - OPE-RATING FAULTS - SERVICING MANUAL). It is thus possible to also reset other reasons for maintenance although they have not yet occurred.

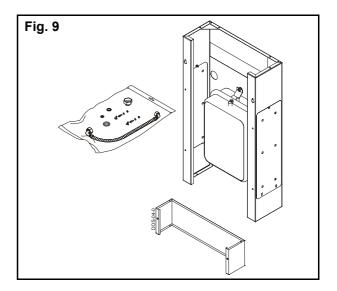
When resetting the maintenance alarm, the maintenance code and the internal error code (b0) will automatically also be reset.

Note: Only the QAA 73 can the maintenance alarms be activated, the reasons for the maintenance alarms be checked and a reset via parameter be made.

1 - EXPANSION VESSEL SUPPORT BRACKET

The bracket enables an expansion vessel to be connected to the boiler.

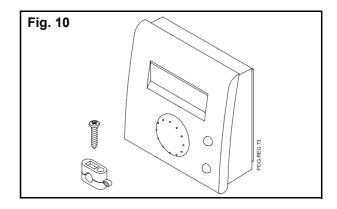
See the bracket assembly instructions



2 - SET-UP TAKING ROOM TEMPERATURE INTO ACCOUNT (REG 73)

The REG 73 is a multifunctional digital room sensor for one or two heating circuits and for the control of domestic hot water.

Refer to the kit installation instructions.

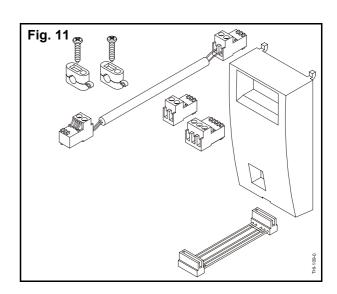


3 - PROGRAMMABLE RELAY CLIP-IN KIT (REG 134)

The programmable relay clip-in kit (without flow sensor) enables, for example:

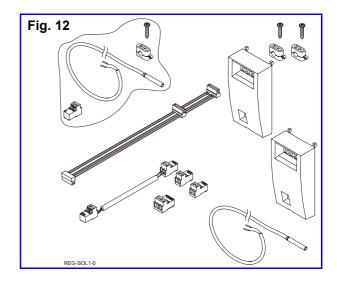
- a domestic hot water circulating pump to be controlled.
- an external safety gas solénoïd to be connected,

Refer to kit installation instructions.



4 - SOLAR HEATING CONTROL KIT (REG 152)

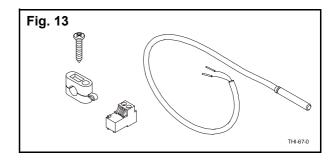
The solar heating control kit is intended for type C THI boilers that have a solar tank. It is used to control the production of domestic hot water by solar panels.



5 - DHW SENSOR KIT

The DHW sensor kit allows the connection of the domestic hot water sensor to the hot water heater at the boiler control unit.

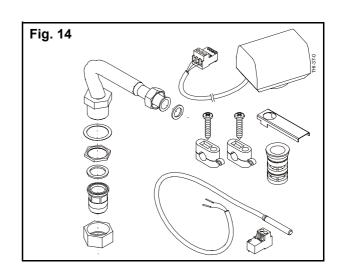
Refer to kit installation instructions.



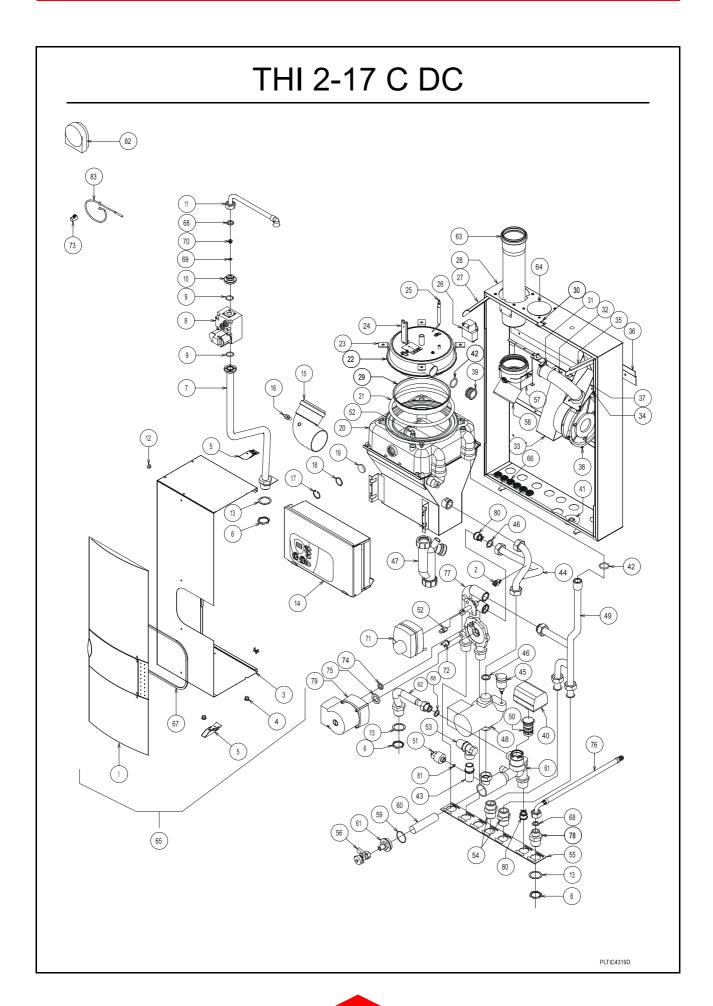
6 - SELECTOR VALVE KIT FOR CONNECTING THI..C/BS

The selector valve kit allows the connection of a central heating only type boiler to a domestic hot water heater.

Refer to kit installation instructions.

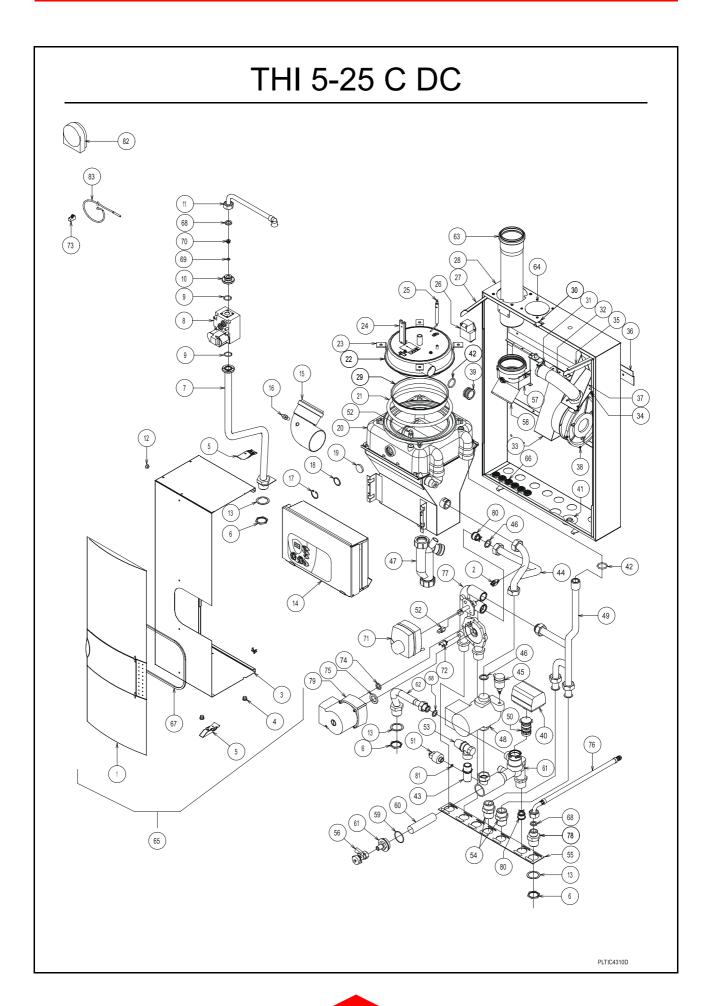


V - PARTS LISTS



1	Rep.	Reference	Description
3	1	H20.32834	FRONTPANEL GREY
A	2	L20.31471	SENSOR T7335D1024B
FIXING PART; UPPER COVER MESSING LOCK NUT 1 GAS SUPPLY; GREY; THISION WIRED SIT GAS VALVE SET GAS PIPE BURNER THISION LIGHT SET GAS PIPE BURNER THISION GAS PIPE BURNER THISION PLASTIC STOPPER MAL 9 WHITE PROTECTING RING PROTECTING RING PROTECTING RING PROTECTING RING PROGRAMMED : CONTROL BOX WIRING 90° ELBOW : D. 80 DRILLED GAS PIPE BURNER FOR THIS 20 AV25,5X0.3 SENSOR TASSERON NITC SENSOR D10X20 10K INSIDE CIRCLIPS D. 30 YELLOW BICHROMATE STAINLESS STEEL WASHER 30 AV25,5X0.3 SIGHTGLASS PYREX D.30X6 STAINLESS STEEL WASHER 30 AV25,5X0.3 SIGHTGLASS PYREX D.30X6 STAINLESS STEEL BOILER SHELL THISION GLASS BRADE RING D. 12 LG. 685 BURNER FOR THR 2-13 GAS SEAD RING D. 12 LG. 685 BURNER FOR THR 2-13 GINTION ELECTRODE BURNER MZ/THR IGNITION ELECTRODE BURNER MZ/THR IGNITION ELECTRODE BURNER 1-10 GINTION TRANSFORMER ANSTOSS ZAG ZXV 01/10 LEFT HAND CONSOLE (269 AX25X1.5) CHASSIS, EQUIPPED GAS SEAD RING D. 12 MAR AND STAIN HERE FOR THE FAN FASTENING HOOK PIPE RING 41.1/44 PIPE BURNER /FAN THR GAS SET SENDER FOR THE FAN FASTENING HOOK PIPE RING A1.1/44 GAS SET SET SET SET SET SET SET SET SET SE	3	Y90.35966	WHITE COVER THRI C
6	4	A00.03141	COLORLESS PLASTIC CAP
7 U07.31501 GAS SUPPLY: GREY: THISION 8 V90.33616 WIRED SIT GAS VALVE SET 8 V90.37322 GAS VALVE SIEMENS VGU 87 10 L10.33774 FLANGE G 34" FOR SIT VALVE 11 U07.31527 FLANGE G 34" FOR SIT VALVE 12 A00.10059 PLASTIC STOPPER MAL 9 WHITE 13 V00.21491 PROTECTING RING 1 14 W07.34974 PROGRAMMED; CONTROL BOX WIRING 15 U07.31496 PROGRAMMED; CONTROL BOX WIRING 16 L20.31496 SENSOR TASSERON NTC SENSOR D10X20 10K 17 T40.01051 INSIDE CIRCLIPS D.30 YELLOW BICHROMATE 18 B59.00692 STAINLESS STEEL WASHER 30.4225.5X0.3 19 T20.00582 SIGHTGLASS PYREX D.30XS 20 V07.31526 STAINLESS STEEL WASHER 30.4225.5X0.3 21 F00.26572 GLASS BRAID RING D. 12 LG. 685 22 X00.218867 BURNER FOR THR 2-13 23 U00.03505 FIXING BRACKET FOR BURNER MZ/THR 24 L00.16973 IGINITION TEANSFORMER ANSTOSS ZAG ZXV 01/10	5	T25.31875	FIXING PART; UPPER COVER
8	6	120.21452	MESSING LOCK NUT 1
8	7	U07.31501	GAS SUPPLY; GREY; THISION
10	8	V90.33616	WIRED SIT GAS VALVE SET
10	8	V90.37322	GAS VALVE SIEMENS VGU 87
11	9	L10.10607	HONEYWELL O'RING 22 X 2,5
12	10	L10.33774	FLANGE G 3/4" FOR SIT VALVE
13	11	U07.31527	GAS PIPE BURNER THISION
14	12	A00.19059	PLASTIC STOPPER MAL 9 WHITE
15	13	V00.21491	PROTECTING RING 1
16	14	W07.34974	PROGRAMMED; CONTROL BOX WIRING
17	15	U07.31498	90° ELBOW ; D.80 DRILLED
18	16	L20.31496	SENSOR TASSERON NTC SENSOR D10X20 10K
19	17	T40.01051	INSIDE CIRCLIPS D.30 YELLOW BICHROMATE
20	18	B59.00692	STAINLESS STEEL WASHER 30,4X25,5X0,3
21	19	T20.00582	SIGHTGLASS PYREX D.30X5
21		V07.31526	STAINLESS STEEL BOILER SHELL THISION
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C90.31466			
27 Y00.18234 LEFT HAND CONSOLE (269,4X25X1,5) 28 Y07.33485 CHASSIS, EQUIPPED 29 X00.12864 REMOVABLE PROTECTION FOR BURNER (580 X 30 X 1,5) 30 Y00.14139 FASTENING HOOK 31 B00.18392 PIPE RING 41,1/44 32 O90.16681 PIPE BURNER / FAN (THR) 33 Y00.13849 BACK STOP PLATE FOR MZ (3355X80,4X1,5) 34 Y00.17570 FLANGE FOR WHITE STAND FOR THR FAN 35 Y00.18233 RIGHT HAND CONSOLE (269,4X25X1,5) 36 V07.31962 WALL FASTENING; C MODEL 37 Y00.17569 WHITE STAND FOR THR FAN 38 C50.31464 FAN MYL-EBM RG 128/1300-3612 39 120.34522 AIR ADJUSTMENT RING D. 18,2 40 W07.31704 MOTOR; SELECTIVE VALVE WITH CABLE 41 E20.23654 EXTENSIBLE SEALING D. 18 / RED SILICONE 42 E00.01005 O' RING DIA DIA 29,32 X 3,6 43 120.13579 BRASS NIPPLE MAL3/4-MAL3/4(LONG) 44 U07.33448 MANIFOLD INLET PIPE 45 </td <td></td> <td></td> <td></td>			
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32 090.16681 PIPE BURNER / FAN (THR) 33 Y00.13849 BACK STOP PLATE FOR MZ (3355X80,4X1,5) 34 Y00.17570 FLANGE FOR WHITE STAND FOR THR FAN 35 Y00.18233 RIGHT HAND CONSOLE (269,4X25X1,5) 36 V07.31962 WALL FASTENING; C MODEL 37 Y00.17569 WHITE STAND FOR THR FAN 38 C50.31464 FAN MVL-EBM RG 128/1300-3612 39 I20.34522 AIR ADJUSTMENT RING D. 18,2 40 W07.31704 MOTOR; SELECTIVE VALVE WITH CABLE 41 E20.23654 EXTENSIBLE SEALING D. 18 / RED SILICONE 42 E00.01005 O' RING DIA DIA 29,32 X 3,6 43 I20.13579 BRASS NIPPLE MAL3/4-MAL3/4(LONG) 44 U07.33448 MANIFOLD INLET PIPE 45 L.90.24635 AUTOMATIC AIR VALVE WATTS WITH ISOLATED VALVE 46 E20.03889 SEALING AFM34D 30X21X3 47 A20.23655 SIPHONIC TRAP WITH PIPE 650 MM 48 L30.31468 GRUNDFOS CIRCULATING PUMP UPER 15-50 CACAO 49 U07.33609 HEATING OUTLET; GREY			
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53 L90.24178 SAFETY VALVE	55	L9U.24170	ONI ETT VALVE

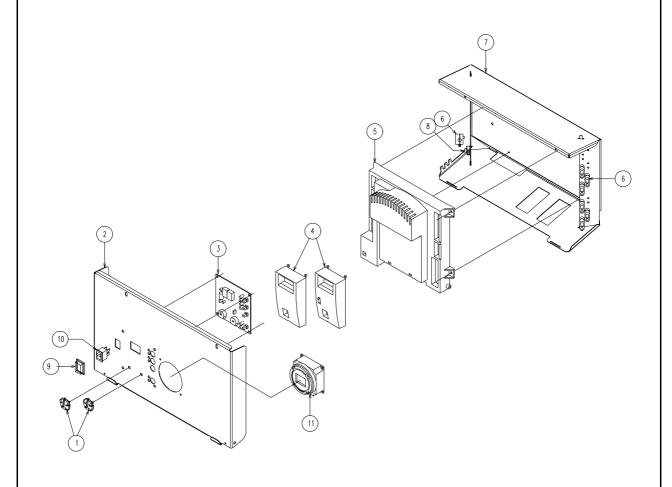
Rep.	Reference	Description
54	120.21441	MESSING SEALED CONNECTION "OLIVE" 22/1
55	V07.33499	LOW BLOCK FLANGE
56	K50.24473	DRAIN COCK / RETURN UNIT
57	Y00.10807	FIXING SYSTEM FOR FLUE PIPE
58	U00.20366	ELBOW D. 80 45°
59	E00.24496	SEALING / O'RING INT. D. 39,45
60	L40.24495	STAINLESS STEEL FILTER / HEATING RETURN
61	U90.28983	HEATING RETURN UNIT
62	U00.23957	TANK RETURN; GREY; THR
63	N40.16810	REDUCED FLUE OUTLET PIPE F75/M80 L360
64	A00.19467	GREY PLASTIC CAP MALE 75
65	Y07.32842	COVER + FRONTPANEL
66	C91.03071	WIRE CARRIER
67	V07.32114	RING FOR BOILER COVER L685
68	E20.03890	SEALING AFM34 D 24X17X3
69	E00.03424	NITRILE O'RING D. 8 X 2 80 SHORE
70	120.17832	UNION REDUCER D.12 D. 4,20
71	L22.22314	ESBE MOTOR TYPE 67 (4 MINUTES)
72	L72.33607	BI-METALLIC THERMOSTAT RA 60°C - M5
73	C15.15690	LUMBERG 2 PTS SCREW PLUG 361102K15
74	E00.31567	O' RING EPDM D.18X2,5 70 SHORE A
75	E00.31566	O'RING EPDM D.25,07X2,62 70 SHORE A
76	O00.20679	STAINLESS STEEL FLEXIBLE PIPE MALE 1/4 WITH ELBOW
77	H30.33433	VALVE/PUMP UNIT; INTEGRATED CIRCUIT 2
78	120.33459	CONNECTION 1" -3/4"
79	L30.31517	MOTOR OF CIRCULATING PUMP UPS 15-50 MBP
80	A90.33605	NON RETURN VALVE; DN25
81	E20.03901	SEALING QUALITY AFM34 D.11X4X3
82	W07.32303	OUTSIDE SENSOR .QAC34/101 THRI
83	L20.31472	SENSOR:TASSERON NTCSENSOR CABLE TSK-TYPE
*	A00.28827	PLASTIC CAP MALE 1/4
*	C09.31469	CABLE WITH RECTIFIER VDU GAS VALVE
*	C09.33608	CABLE 0.960.401+CONNECT. GAS VALVE SIT 848 SIGMA
*	E00.10822	EPDM LIP SEAL D. 80 75 SHORE
*	E10.12503	EPDM STICKING SEAL PIPE 6/9 LENGTH 18
*	E20.24399	GASKET DN 80; BLACK FOR PART NUMBER U00.12053 AND U00.20366
*	130.31973	STOP TECHNYL D.20X19
*	U00.08190	VERSILIC PIPE 6X10 LENGTH 800MM
*	U00.11405	VERSILIC SLEEVE 4X8 LENGTH 640
*	V00.24191	MOUNTING KEY: HONEYWELL
*	X00.05193	FIXING BRACKET FOR IONISATION PROBE
*		IGNITION ANGLE WITH SCREW
	X90.30472	IGNITION ANGLE WITH SCREW



Rep.	Reference	Description
1	H20.32834	FRONTPANEL GREY
2	L20.31471	SENSOR T7335D1024B
3	Y90.35966	WHITE COVER THRI C
4	A00.03141	COLORLESS PLASTIC CAP
5	T25.31875	FIXING PART; UPPER COVER
6	120.21452	MESSING LOCK NUT 1
7	U07.31501	GAS SUPPLY; GREY; THISION
8	V90.33616	WIRED SIT GAS VALVE SET
8	V90.37322	GAS VALVE SIEMENS VGU 87
9	L10.10607	HONEYWELL O'RING 22 X 2,5
10	L10.33774	FLANGE G 3/4" FOR SIT VALVE
11	U07.31527	GAS PIPE BURNER THISION
12	A00.19059	PLASTIC STOPPER MAL 9 WHITE
13	V00.21491	PROTECTING RING 1
14	W07.34211	CONTROL BOX, PROGRAMMED, WIRED
15	U07.31498	90° ELBOW ; D.80 DRILLED
16	L20.31496	SENSOR TASSERON NTC SENSOR D10X20 10K
17	T40.01051	INSIDE CIRCLIPS D.30 YELLOW BICHROMATE
18	B59.00692	STAINLESS STEEL WASHER 30,4X25,5X0,3
19	T20.00582	SIGHTGLASS PYREX D.30X5
20	V07.31526	STAINLESS STEEL BOILER SHELL THISION
21	F00.26572	GLASS BRAID RING D. 12 LG. 685
22	X90.23481	BURNER SET FOR THR 5-25 LPG
22	X90.26473	BURNER KIT THR 5-25 GN
23	U00.03505	FIXING BRACKET FOR BURNER MZ/THR
24	L00.16673	IGNITION ELECTRODE SHORT 74,5 AV CABLE
25	L00.12950	IONISATION PROBE (SHORT 20)
26	C90.31466	IGNITION TRANSFORMER ANSTOSS ZAG 2XV 01/10
27	Y00.18234	LEFT HAND CONSOLE (269,4X25X1,5)
28	Y07.33485	CHASSIS, EQUIPPED
29	X00.12864	REMOVABLE PROTECTION FOR BURNER (580 X 30 X 1,5)
30	Y00.14139	FASTENING HOOK
31	B00.18392	PIPE RING 41,1/44
32	O90.16681	PIPE BURNER / FAN (THR)
33	Y00.13849	BACK STOP PLATE FOR MZ (3355X80,4X1,5)
34	Y00.17570	FLANGE FOR WHITE STAND FOR THR FAN
35	Y00.18233	RIGHT HAND CONSOLE (269,4X25X1,5)
36	V07.31962	WALL FASTENING ; C MODEL
37	Y00.17569	WHITE STAND FOR THR FAN
38	C50.31464	FAN MVL-EBM RG 128/1300-3612
39	120.12530	AIR REDUCER D. 29
39	120.23374	AIR REDUCER D. 27 THR 5-25 NG/LPG
40	W07.31704	MOTOR; SELECTIVE VALVE WITH CABLE
41	E20.23654	EXTENSIBLE SEALING D. 18 / RED SILICONE
42	E00.01005	O' RING DIA DIA 29,32 X 3,6
43	120.13579	BRASS NIPPLE MAL3/4-MAL3/4(LONG)
44	U07.33448	MANIFOLD INLET PIPE
45	L90.24635	AUTOMATIC AIR VALVE WATTS WITH ISOLATED VALVE
46	E20.03889	SEALING AFM34D 30X21X3
47	A20.23655	SIPHONIC TRAP WITH PIPE 650 MM
48	L30.31468	GRUNDFOS CIRCULATING PUMP UPER 15-50 CACAO
49	U07.33609	HEATING OUTLET; GREY
50	V90.33015	SELECTOR VALVE KIT
51	L50.35152	PRESSURE SENSOR HUBA TYPE 505.91540
51	V90.35156	REPLACEMENT SET OF IMIT SENSOR BY HUBA SENSOR
52	L20.31470	SENSOR TASSERON NTC SENSOR M5 TSA-TYPE

Rep.	Reference	Description
53	L90.24178	SAFETY VALVE
54	120.21441	MESSING SEALED CONNECTION "OLIVE" 22/1
55	V07.33499	LOW BLOCK FLANGE
56	K50.24473	DRAIN COCK / RETURN UNIT
57	Y00.10807	FIXING SYSTEM FOR FLUE PIPE
58	U00.20366	ELBOW D. 80 45°
59	E00.24496	SEALING / O'RING INT. D. 39,45
60	L40.24495	STAINLESS STEEL FILTER / HEATING RETURN
61	U90.28983	HEATING RETURN UNIT
62	U00.23957	TANK RETURN; GREY; THR
63	N40.16810	REDUCED FLUE OUTLET PIPE F75/M80 L360
64	A00.19467	GREY PLASTIC CAP MALE 75
65	Y07.32842	COVER + FRONTPANEL
66	C91.03071	WIRE CARRIER
67	V07.32114	RING FOR BOILER COVER L685
68	E20.03890	SEALING AFM34 D 24X17X3
69	E00.03424	NITRILE O'RING D. 8 X 2 80 SHORE
70	120.12056	REDUCER D.12 D.4,60
70	120.31601	GAS REDUCER GAZ D.
71	L22.22314	ESBE MOTOR TYPE 67 (4 MINUTES)
72	L72.33607	BI-METALLIC THERMOSTAT RA 60°C - M5
73	C15.15690	LUMBERG 2 PTS SCREW PLUG 361102K15
74	E00.31567	O' RING EPDM D.18X2,5 70 SHORE A
75	E00.31566	O'RING EPDM D.25,07X2,62 70 SHORE A
76	O00.20679	STAINLESS STEEL FLEXIBLE PIPE MALE 1/4 WITH ELBOW
77	H30.33433	VALVE/PUMP UNIT; INTEGRATED CIRCUIT 2
78	120.33459	CONNECTION 1" -3/4"
79	L30.31517	MOTOR OF CIRCULATING PUMP UPS 15-50 MBP
80	A90.33605	NON RETURN VALVE; DN25
81	E20.03901	SEALING QUALITY AFM34 D.11X4X3
82	W07.32303	OUTSIDE SENSOR .QAC34/101 THRI
83	L20.31472	SENSOR;TASSERON NTCSENSOR CABLE TSK-TYPE
*	A00.28827	PLASTIC CAP MALE 1/4
*	C09.31469	CABLE WITH RECTIFIER VDU GAS VALVE
*	C09.33608	CABLE 0.960.401+CONNECT. GAS VALVE SIT 848 SIGMA
*	E00.10822	EPDM LIP SEAL D. 80 75 SHORE
*	E10.12503	EPDM STICKING SEAL PIPE 6/9 LENGTH 18
*	E20.24399	GASKET DN 80; BLACK FOR PART NUMBER U00.12053 AND U00.20366
*	130.31973	STOP TECHNYL D.20X19
*	U00.08190	VERSILIC PIPE 6X10 LENGTH 800MM
*	U00.11405	VERSILIC SLEEVE 4X8 LENGTH 640
*	V00.24191	MOUNTING KEY; HONEYWELL
*	V07.31649	GAS CONVERSION SET GN/GP THI 5-25
*	X00.05193	FIXING BRACKET FOR IONISATION PROBE
*	X90.30472	IGNITION ANGLE WITH SCREW

CONTROL BOX



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