GB IE

NORTAL METRUCTIONES

SERVICING

COMMESION REPORT OF SECULOR

Commissioning
Gas conversion
Maintenance
Operating faults

Options
Parts lists

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READ THE SCHARE 10
SAFETY CONDENSE 10

THI 0.9-9 C
THI 2-17 C / THI 5-25 C
THI 5-25 M75 V





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2 - FILLING THE INSTALLATION WITH WATER

- The installation will have to be rinsed before the boiler is filled with water.
- To ensure proper boiler bleeding during the installation's filling stage:
 - Filling the DHW tank for the THI C+ BS/ THI M75 models:
 - Fill the tank with water by using the safety control box of the installation (item. 47, fig. 47 - page 39 and item. 18, fig. 48 page 40 - chapter IV - INSTALLATION -INSTALLATION MANUAL), taking care to open a hot water tap,
 - . After filling, check that the tank access flap is tightened correctly.
 - · Filling the installation for all models:
 - . Open the heating flow/return isolation valves,

- . Open the cold water inlet valve,
- Fill the installation slowly (to make degassing easier) by using the valve of the filling system,
- . check the leaktightness of the circuit,
- Bleed the entire installation, particularly the radiators. Continue to fill the system until a pressure of approximately 1.5 bar is reached.

To read the pressure:

- 1) Switch on the boiler
- 2) Press the info key twice
- The value of the pressure is shown on the display
- . turn off the filling valve.

3 - GAS SUPPLY

- Open the gas cock (item. 2, fig. 46 to fig. 48 chapter IV - INSTALLATION - INSTALLATION MANUAL).
- Carefully bleed the gas piping. If the installation is new, the bleed evacuates the air that is contained in the piping so that the boiler has an adequate fuel.

The presence of air in the gas prevents the ignition of the burner and leads to safety shut-down by the flame monitoring unit.

This is the case both with a natural gas and a LPG new installation. With a LPG installation the storage tank must also be bled properly before commissioning.



The external discharge of the gas bleed must be carried out with all necessary safety measures.

 Check the tightness of the connectors and the airtightness of the gas circuit using a foaming product or a water column pressure gauge.

4 - SETTING THE DOMESTIC HOT WATER FLOW RATE

4.1 - THI 5-25 M75 V

Flow should be set for optimum hot water comfort:

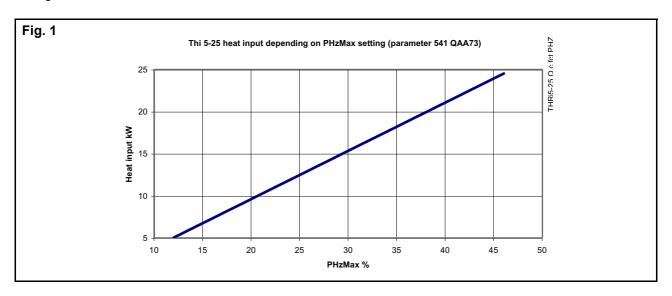
- THI 5-25 M75: 12 I/min

5 - SETTING THE MAXIMUM POWER IN HEATING MODE

The maximum power of the boiler in heating mode can be limited. This operation requires modification of the PHz parameter in the boiler's LMU management unit.

Access to the PHz parameter is possible via the QAA 73 ambient temperature sensor (line 541) following the access mode.

The PHz value should be selected by following the diagram below. Adapting the boiler's maximum heating power to the maximum power of the installation helps avoid heavy loads during reheating phases and thus reduces the maximum sound output of the boiler.



6 - VERIFICATIONS PRIOR TO COMMISSIONING

- Ensure that the installation has been issued with a certificate of conformity granted by an approved organisation (according to the installation standards).
- Check that the boiler is adequately adapted to the gas used and that there are no gas leaks.
- Check that the boiler is filled with water and under pressure (1.5 bar) and that there are no leaks,



Never let the pressure drop below 1 bar.

 Check that the electrical connections of the boiler are correct: 230 V, 50 Hz, earth connection compliant, polarities correct,

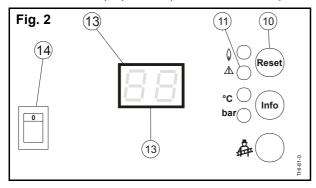
- Check that the combustion products outlet is correctly assembled, that there are no leaks and no obstruction.
- Check that the heating system ventilations are not obstructed,
- Check that the condensate siphons of the flues are filled with water,
- Check that the condensate outlet is connected properly and that there are no leaks.
- Check the system is totally cleaned and had been cleaned and flushed in accordance with BS 7593.
 Failure to do this may invalidate the warranty.

7 - USER INFORMATION

The heating engineer must inform the user about the unit's operating mode. In particular the user must be informed about the function and the operation of the safety systems and the need for regular servicing by a qualified person.

8 - COMMISSIONING

- Check that all the water stop valves and the gas cock are open,
- the boiler's external electrical circuit-breaker,
- Press button (14) to ON (Button illuminated).



 The following references will appear one after the other on the boiler control panel display (13),



For this example, this means that it is the version 3.00 of the LMU management unit and version 1.01 of the control interface.

When starting up the boiler, the LMU management unit recognises all the accessories connected (sensors, mixing valve, pumps, etc.) and automatically checks the values and settings according to the type of installation.

If a problem occurs, the LED "alarm signal" (11) is on (red):

- · Press RESET (10) to reset the boiler,
- If the alarm persists, consult the list of operating faults in chapter IV - OPERATING FAULTS - page 18 - SERVICING MANUAL.

| Display | Description | Consequences according to type of installation | | |
|----------------------|--|--|--|--|
| 4 1 auto Function \$ | "Function" key (1) gives access to 3 operating modes by pressing: - auto mode: LED (4) on - winter mode: LED (5) on - summer mode: LED (4) and (5) off | | | |
| FUN-02-0 | LED (5) on / LED (4) off: Winter mode The boiler provides heating and domestic hot water | Basic boiler model (without outside sensor and room sensor) Auto mode is inaccessible The heating and hot water temperatures are set manually by using the boiler potentiometers. Boiler with outside sensor only Auto mode is not activated, Heating operates continually except if there is a request for hot water, The hot water temperature is set manually on the boiler potentiometer. Boiler with outside sensor and room sensor The heating and hot water temperatures are set via the room sensor QAA73. | | |
| Function #Function | LED (4 and 5) off: Summer mode The boiler provides domestic hot water only | Basic boiler model (without outside sensor and room sensor) Auto mode is inaccessible The hot water temperature is set manually by using the boiler potentiometers. Boiler with outside sensor only Auto mode is not activated, The hot water temperature is set manually on the boiler potentiometer. Boiler with outside sensor and room sensor The hot water temperature Is set via the room sensor QAA73. | | |

| Display Description | | Consequences according to type of installation | | |
|---------------------------|---|--|--|--|
| auto Function # FUN-04-0 | LED (4 and 5) on: Auto winter mode The boiler provides heating and domestic hot water | Auto mode is active: Boiler with outside sensor only The heating starts up automatically and only when the average outside temperature computed by the LMU is below 19°C. The hot water temperature is set manually on the boiler potentiometer. Boiler with outside sensor and room sensor The heating starts up automatically and only when the average outside temperature computed by the LMU is below 19°C. The heating and hot water temperatures are set via the room sensor QAA73. | | |
| auto Function | LED (4) on / LED (5) off: Auto summer mode The boiler provides domestic hot water only | Auto mode is active: Boiler with outside sensor only The heating stops automatically and only when the average outside temperature computed by the LMU is below 19°C. The hot water temperature is set manually on the boiler potentiometer. Boiler with outside sensor and room sensor The heating stops automatically and only when the average outside temperature computed by the LMU is below 19°C. The hot water temperatures are set via the room sensor QAA73. | | |

9 - FLAME SETTING

- After switching the boiler on:
- Check the flame control by disconnecting the ionizing electrode:
- The boiler goes into safety mode after two ignition attempts (display and and)

10- COMBUSTION PRODUCT CHECKING

The boiler is preset in the factory to operate with natural gas H (G20).

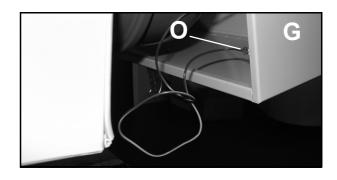
If the gas type is changes at the first commissioning,

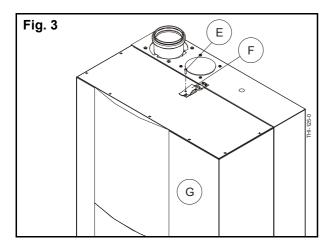
check the combustion products according to the procedure described in chapter II - GAS CONVER-SION - page 10 - SERVICING MANUAL.

11 - ASSEMBLING THE COVER

After the commissioning and performing all the checks, put back the front panel of the boiler.

- fit the front panel (item G) to the frame of the boiler and support it with the latch (item F),
- connect the terminal of the earth wire (item O) positioned in the boiler to the tab on the front panel (item G),
- shut the front panel using the latch (item F) on the low of the boiler,
- lock both latches (item F) using the 2 screws (item E).





12- INFORMATION AVAILABLE FORM THE "INFO" KEY OF THE BOILER CONTROL PANEL

| Initial | disp | lay: |
|---------|------|------|
|---------|------|------|

the green "°C" LED is on



the display shows the heating flow temperature.

Return to the initial display:

To return to the initial position (i.e. the display indicates the heating flow temperature) during the various levels described below or during any other actions on the boiler control panel:

Press the (Info



info key until the display reads - then release the key.

To access the different statuses of LEVEL 1:

- Press the (Info) key once to move successively from one information to another (the corresponding information appears on the display).
- OR: wait for 8 minutes

General information (final user level)

LEVEL 1

| Displays | Variable name | Functions |
|----------|---------------|---|
| bar Info | Tbwlst1 | DHW value measured by the DHW 1 sensor (e.g. 45°C) |
| oc Info | Druck | Boiler water pressure (e.g. 1.5) |
| oc Info | Betr.Phase | Operating phase (e.g. 11) |
| oc Info | Meldecode | Fault diagnostic (system) code (e.g. 0 and the display flashes) |
| oc Info | Tkist | Boiler flow temperature (= initial display) |

II - GAS CONVERSION

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

1 - GAS CHANGE



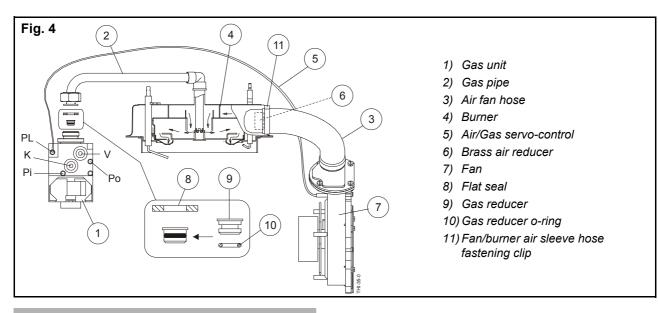
This operation must be carried out by a qualified person equiped with a calibrated combustion analyser.

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/M75 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/M75 models only

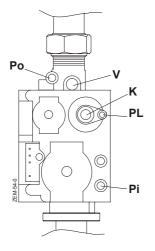
Conversion to natural gas requires the gas conversion set (ref: V07.31650)

Refer to the installation instructions of the gas conversion set

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

Fig. 5

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)

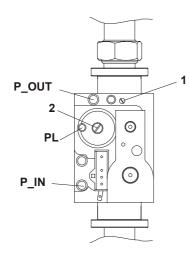
V = Adjust the slope of the characteristic of the air/gas ratio only when the burner is at high rate. This setting is carried out in the factory for natural gas type H (G20). This means that the pressure Po can be changed to obtain the required gas flow (section 2.2 - page 13 - chapter II - GAS CONVERSION -SERVICING 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)

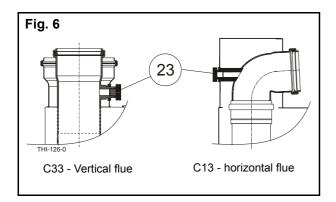
1 = Adjust the slope of the characteristic of the air/gas ratio only when the burner is at high rate. This setting is carried out in the factory for natural gas type H (G20). This means that the pressure "P_OUT" can be changed to obtain the required gas flow . (section 2.2 - page 13 - chapter II - GAS 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 20 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. 5 - page 11 - chapter II - GAS CONVERSION - SERVICING MANUAL) to obtain a stable flame.
- Check the CO₂/CO ratio (see setting table section 2.2 - page 13 - chapter II - GAS CON-VERSION - 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 13 - chapter II - GAS CON-VERSION - SERVICING MANUAL),
- If necessary:
 - adjust screw K or 2 (fig. 5 page 11 chapter II

 GAS CONVERSION SERVICING 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 (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 | | |
|--|----------------------|-------------------|--------------------|----------------------|--|
| | | | 0.9-9 C | 2-17 C | 5-25 C/M75 |
| Natural gas burner type | | | X07.36236 | X07.36235 | X07.36238 |
| Heat output (Heating) | 30/50°C 60/80°C | kW kW | 1.2/9.8 1.0/9.1 | 2,6/18,3 2,3/16,9 | 5.4/25.8 4.8/23.9 |
| Heat input (Heating) | | kW | 1.1/9.3 | 2,5/17,4 | 5.0/24.5 |
| Ø Gas reducer | Nat Gas H Propane | mm | 3.00 | 4,20 - | 5.75 4.65 |
| Ø Air reducer | Nat Gas H Propane | mm | 12 - | 18,2 - | 29 27 |
| Gas flow (15°C, 1013 mbar) | Nat Gas H Propane | m ³ /h | 0.12/0.98 | 0,26/1,84 | 0.53/2.59 0.39/1.90 |
| Gas pressure P _o / P_OUT (gas unit to burner) | Nat Gas H Propane | mbar | 0.25/8.0 | 0,3/6,5 | 0.35/4.50 0.35/4.50 |
| Servo-system air pressure (PL) | Nat Gas H Propane | Pa | 35/950 - | 40/810 - | 40/600 40/600 |
| CO ₂ Emission Nat Gas H | | % | 8.0-8.5/9.0-9.5 | | 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 | 0/20 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.

III - MAINTENANCE

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

Spare parts must be ordered by using the references listed in chapter VI - PARTS LISTS - page 27 - SERVICING, and specifying the type and serial number of each part.

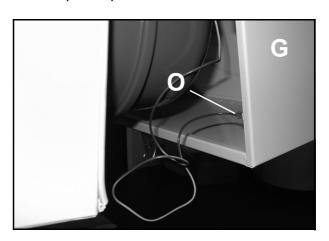


Before any servicing, cut the power supply. Close the gas inlet of the boiler and the isolation valves if required.

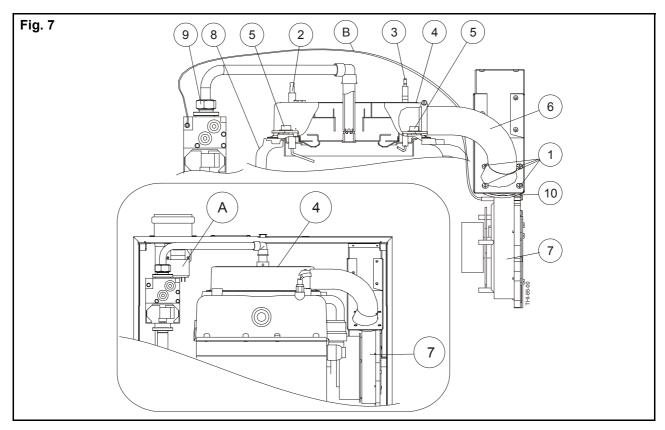
If the boiler is removed, provide a port at the end of the gas piping.



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:

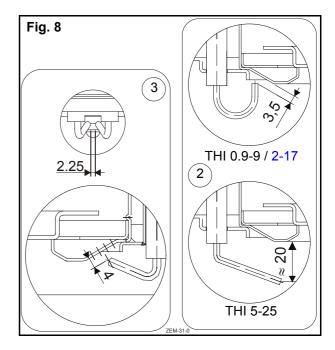
- Electrically disconnect the burner/fan unit:
 - remove the 2 cable lugs connecting the ignition electrode (3) to the ignition transformer (A),
 - remove the cable lug connecting the ionising electrode (2) to the X2-05 terminal of the boiler control panel,
 - remove the fan (7):
 - . from the connector 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 14 - chapter III - MAINTENANCE - SERVICING).

- 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 - TANK MAINTENANCE (THI..M75 MODELS)

 The stainless steel hot water tank is resistant to lime scale. Nevertheless, the access flap gives access to the tank and the exchanger.

4 - 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 5 - page 16 chapter III - MAINTENANCE - SERVICING).

5 - 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).

6 - COMBUSTION PRODUCT CONDUITS (FLUE)

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

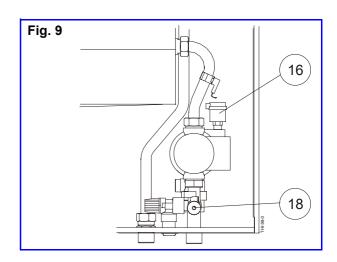
(airtightness of the parts that may be disassembled - conduits not obstructed).

7 - 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 (item. 16) is open, as soon as the pressure gauge indicates a zero pressure to allow air to enter the boiler shell.



8 - SENSOR RESISTANCES

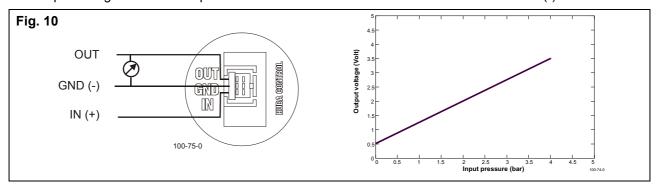
The resistance of the sensors must be measured after they have been disconnected from the control panel.

| | Resistance values of the sensors |
|-------------|---|
| Temperature | 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 |

9 - PRESSURE SENSOR

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



IV - 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 |
| 52 | 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 / | 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 20 - chapter IV - OPERATING FAULTS - SERVICING) |
| 88 10 | STB (boiler overheating safety) activated | Check that shunt X3-01 is present and 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 |
|------------|---|---|
| 88 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 |
| 88 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 80 | The service function is active | - |
| 881 | 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 20 - chapter IV - OPE-RATING FAULTS - SERVICING). 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.

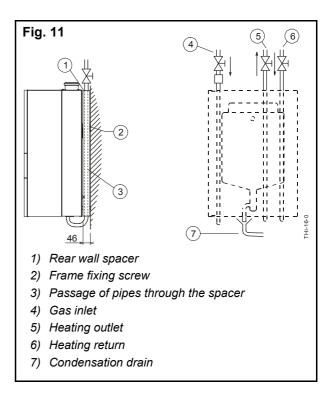
V - OPTIONS

1 - REAR WALL SPACER

The rear wall spacer (1) allows pipes to be fitted behind the boiler type THI ..C, in the case of installation in a vertical direction.

Fitting:

- Fit the support plate (2) (section 3 page 26 chapter IV - INSTALLATION - INSTALLATION MANUAL),
- Place the rear wall spacer (1) onto the support plate,
- Fit the boiler to the rear wall spacer.

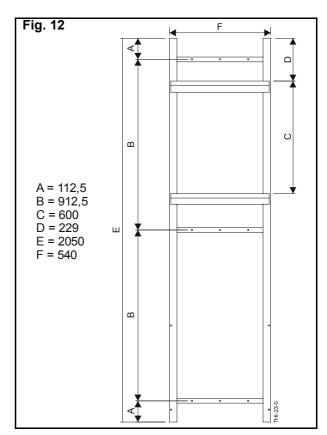


2 - MOUNTING BRACKET FOR LIGHT STUD WALLS

The bracket allows for the fitting of a boiler THI..M75 on to a light stud wall

- Fix the bracket to the wall,
- Fit the boiler to the mounting bracket.

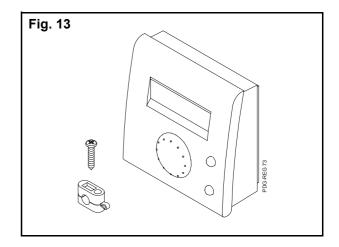
2.1 - THI...M75 V



3 - 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.

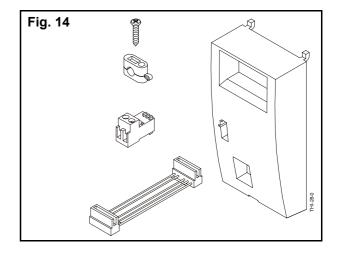


4 - LPB COMMUNICATION CLIP-IN KIT (REG 130)

The LPB communication clip-in kit is used to connect the LMU control unit to different units or accessories of the type:

- RVA 46: zone regulator
- RVA 47: cascade regulator
- + others (distance management etc.)

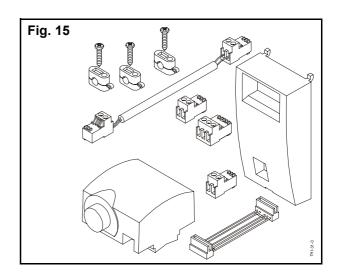
Refer to kit installation instructions.



5 - 2ND HEATING CIRCUIT CLIP-IN KIT

The 2nd heating circuit clip-in kit is used when a second heating circuit is connected to the boiler. It allows the communication between the boiler's LMU control unit and the various accessories of the secondary circuit.

Refer to kit installation instructions.

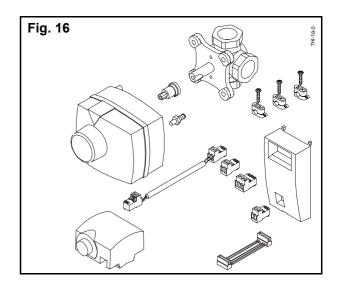


6 - DOUBLE CIRCUIT KIT (REG 125)

The double circuit kit is used whenever a second heating circuit is connected to the boiler:

 The 2nd circuit clip-in ensures communication between the boiler's LMU management unit; the 2nd circuit pump control and also the mixing valve motor (accessories supplied with the kit).

Refer to kit installation instructions.

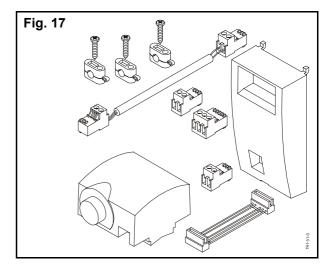


7 - PROGRAMMABLE RELAY CLIP-IN KIT (REG 127)

The programmable relay clip-in kit (sensor inlet) enables:

- a 2nd heating pump to be controlled in parallel with the boiler pump in the case of operation using a header.
- with the flow sensor positioned at the outlet of the header, the heating outlet can be controlled after the header.
- an external safety gas solenoid to be connected,
- an alarm to be connected.

Refer to kit installation instructions.

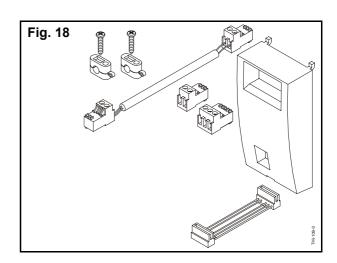


8 - PROGRAMMABLE RELAY CLIP-IN KIT (WITHOUT SENSOR) (REG 134)

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

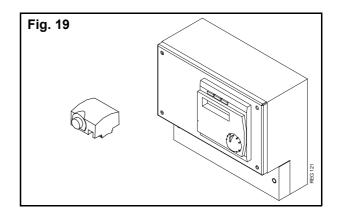
- a domestic hot water circulation pump to be controlled,
- an outside gas safety solenoid valve to be connected.

Refer to the assembly instructions for the kit.



9 - ZHTI 46 CONTROL UNIT (REG 129)

The control unit ZHTi 46 enables an additional heating circuit to be controlled. (Required from 3 heating circuits - refer to technical specifications of the ZHTi 46).



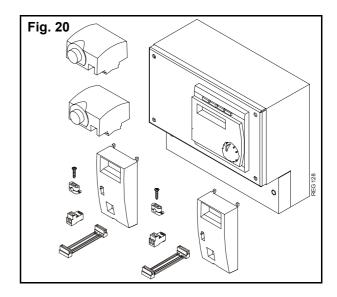
10- ZHTI 47 CONTROL UNIT (REG 128)

The control unit ZHTi 47 manages 2 cascading boilers.

Note:

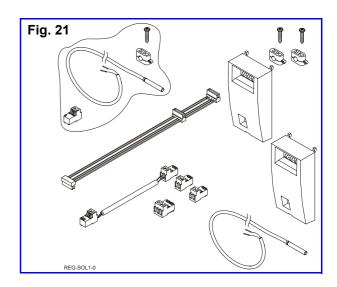
- For multiple boiler management, use clip-in kits LBP (130).

Refer to ZHTi 47 technical specifications.



11 - SOLAR HEATING CONTROL KIT (REG 152)

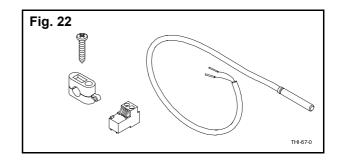
The solar heating control kit is intended for type C THI boilers that have a solar tank. It is used to control the production of domestic hot water by solar panels.



12- 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.

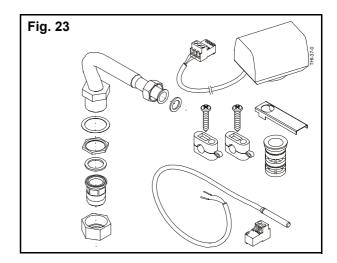
Refer to kit installation instructions.



13- 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.



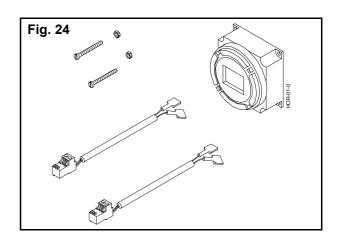
14- TIMER KIT

The timer kit is fitted to the boiler's control panel and controls an installation only possessing one heating circuit.

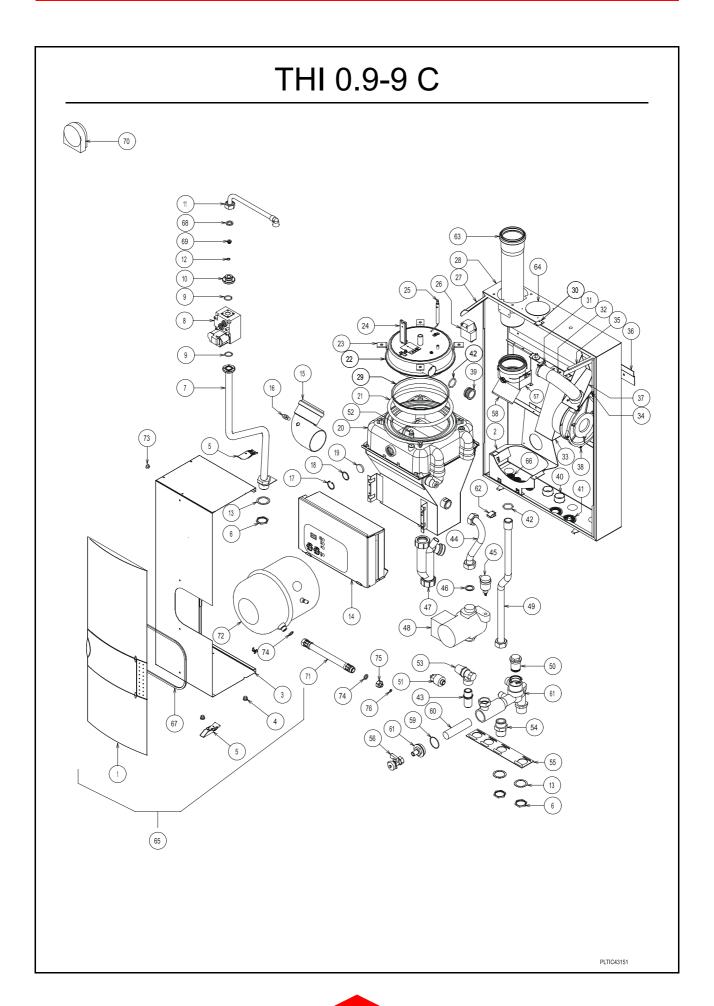


Fitting a clip-in to the boiler's LMU management unit will not work with this timer.

Refer to kit installation instructions.



VI - PARTS LISTS



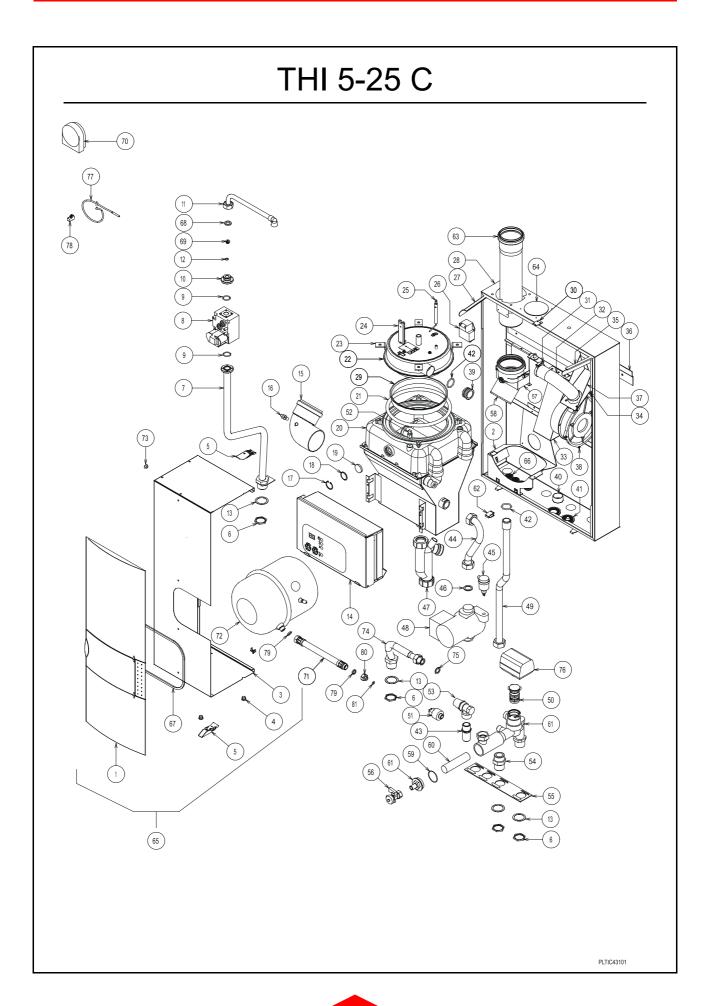
| Rep. | Reference | Description |
|----------|------------------------|---|
| 1 | H20.32834 | FRONTPANEL GREY |
| 2 | Y00.20593 | WHITE STAND FOR EXPANSION VESSEL THR |
| 2 | Y09.34942 | STAND FOR EXPANSION VESSEL; WHITE |
| 3 | Y90.35966 | WHITE COVER THRI C |
| 4 | A00.03141 | COLORLESS PLASTIC CAP |
| 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 | E00.03424 | NITRILE O'RING D. 8 X 2 80 SHORE |
| 13 | V00.21491 | PROTECTING RING 1 |
| 14 | W07.31558 | ELECTR. CONTROL PANEL + WIRING 0,9-9 THISION |
| 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 | X00.25969 | BURNER THR1-10 |
| 23 | U00.03505 | FIXING BRACKET FOR BURNER MZ/THR |
| 24 | L00.16673 | IGNITION ELECTRODE SHORT 74,5 AV CABLE |
| 25 | L00.25959 | IONISATION ELECTRODE BURNER 1-10 |
| 26 | C90.31466 | IGNITION TRANSFORMER ANSTOSS ZAG 2XV 01/10 |
| 27 | Y00.18234 | LEFT HAND CONSOLE (269,4X25X1,5) |
| 28 | Y90.33464 | CHASSIS ; EQUIPPED C/SEP |
| 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 |
| 30 37 | Y00.17569 | WHITE STAND FOR THR FAN |
| 38 | | FAN MVL-EBM RG 128/1300-3612 |
| 39 | C50.31464 I20.25635 | AIR REDUCER D12 |
| 39 40 | A00.24109 | ORANGE CAP D. 34,7 EZ-16 |
| 40 | E20.23654 | EXTENSIBLE SEALING D. 18 / RED SILICONE |
| 41 | E00.01005 | O' RING DIA DIA 29,32 X 3.6 |
| 42 | I20.13579 | BRASS NIPPLE MAL3/4-MAL3/4(LONG) |
| 43 44 | | SUMP INLET THRC/S GREY |
| 44 45 | U00.19252 | AUTOMATIC AIR VALVE WATTS WITH ISOLATED VALVE |
| | L90.24635 | |
| 46 47 | E20.03889 | SEALING AFM34D 30X21X3 SIPHONIC TRAP WITH PIPE 650 MM |
| 47 48 | A20.23655 | |
| 48 | L30.31468 | GRUNDFOS CIRCULATING PUMP UPER 15-50 CACAO |
| 49 50 | U00.19465 | HEATING FLOW PIPE GREY THRC |
| 50 | H30.24159 | MESSING CAP 28X52 + 2 O'RING |
| 51 | L50.35152 | PRESSURE SENSOR HUBA TYPE 505.91540 |
| 51 52 | V90.35156 | REPLACEMENT SET OF IMIT SENSOR BY HUBA SENSOR |
| | 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 | V00.23999 | STOP PLATE FOR HEATING AND DHW |
| 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 | L20.31471 | SENSOR T7335D1024B |
| 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 | 120.31599 | GAS REDUCER |
| 70 | W07.32303 | OUTSIDE SENSOR .QAC34/101 THRI |
| 71 | O00.20679 | STAINLESS STEEL FLEXIBLE PIPE MALE 1/4 WITH ELBOW |
| 71 | O00.36107 | FLEXIBLE PIPE |
| 72 | L90.03520 | EXPANSION CYLIND, VESSEL 8L MALE 3/4 |
| 72 | L90.36106 | EXPANSION VESSEL 8L D.197 |
| 73 | A00.19059 | PLASTIC STOPPER MAL 9 WHITE |
| 74 | E20.25892 | RING 3/8 AFM34 D.14,5 (+0,3-0,1)X9 EP : 3 |
| 75 | K20.10719 | REDUCER MALE FEM F12/17 - M8/13 |
| 76 | E20.03901 | SEALING QUALITY AFM34 D.11X4X3 |
| * | 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 |
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THI 2-17 C 65 PLTIC43191

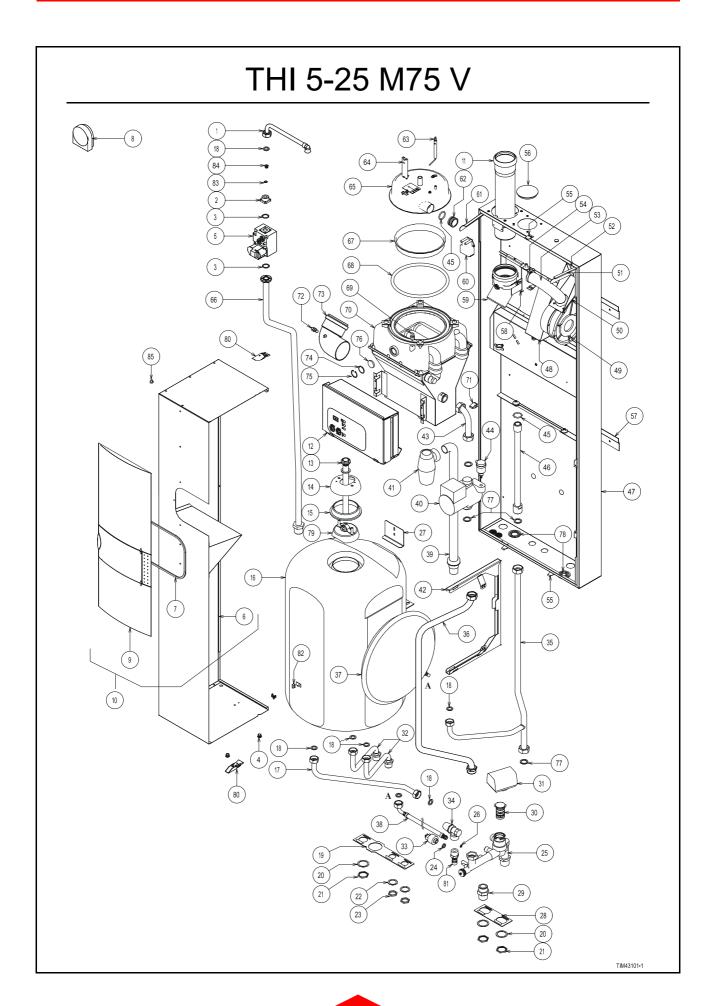
| Rep. | Reference | Description |
|------|-----------|--|
| 1 | H20.32834 | FRONTPANEL GREY |
| 2 | Y00.20593 | WHITE STAND FOR EXPANSION VESSEL THR |
| 2 | Y09.34942 | STAND FOR EXPANSION VESSEL; WHITE |
| 3 | Y90.35966 | WHITE COVER THRI C |
| 4 | A00.03141 | COLORLESS PLASTIC CAP |
| 5 | T25.31875 | 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 | E00.03424 | NITRILE O'RING D. 8 X 2 80 SHORE |
| 13 | V00.21491 | PROTECTING RING 1 |
| 14 | W07.35261 | CONTROL BOX ; PROGRAMMED WIRING THI 2-17 |
| 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 | X00.21867 | BURNER FOR THR 2-13 |
| 23 | U00.03505 | FIXING BRACKET FOR BURNER MZ/THR |
| 24 | L00.16673 | IGNITION ELECTRODE SHORT 74,5 AV CABLE |
| 25 | L00.25959 | IONISATION ELECTRODE BURNER 1-10 |
| 26 | C90.31466 | IGNITION TRANSFORMER ANSTOSS ZAG 2XV 01/10 |
| 27 | Y00.18234 | LEFT HAND CONSOLE (269,4X25X1,5) |
| 28 | Y90.33464 | CHASSIS ; EQUIPPED C/SEP |
| 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 |
| | Y00.18233 | |
| 35 | | 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 | 120.34522 | AIR ADJUSTMENT RING D. 18,2 |
| 40 | A00.24109 | ORANGE CAP D. 34,7 EZ-16 |
| 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 | U00.19252 | SUMP INLET THRC/S GREY |
| 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 | U00.19465 | HEATING FLOW PIPE GREY THRC |
| 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 | V00.23999 | STOP PLATE FOR HEATING AND DHW |
| 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 | L20.31471 | SENSOR T7335D1024B |
| 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 | 120.17832 | UNION REDUCER D.12 D. 4,20 |
| 70 | W07.32303 | OUTSIDE SENSOR .QAC34/101 THRI |
| 71 | O00.20679 | STAINLESS STEEL FLEXIBLE PIPE MALE 1/4 WITH ELBOW |
| 71 | O00.36107 | FLEXIBLE PIPE |
| 72 | L90.03520 | EXPANSION CYLIND, VESSEL 8L MALE 3/4 |
| 72 | L90.36106 | EXPANSION VESSEL 8L D.197 |
| 73 | A00.19059 | PLASTIC STOPPER MAL 9 WHITE |
| 74 | U00.23957 | TANK RETURN; GREY; THR |
| 75 | E20.03890 | SEALING AFM34 D 24X17X3 |
| 76 | W07.31704 | MOTOR; SELECTIVE VALVE WITH CABLE |
| 77 | L20.31472 | SENSOR; TASSERON NTCSENSOR CABLE TSK-TYPE |
| 78 | C15.15690 | LUMBERG 2 PTS SCREW PLUG 361102K15 |
| 79 | E20.25892 | RING 3/8 AFM34 D.14,5 (+0,3-0,1)X9 EP : 3 |
| 80 | K20.10719 | REDUCER MALE FEM F12/17 - M8/13 |
| 81 | E20.03901 | SEALING QUALITY AFM34 D.11X4X3 |
| * | 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 |
| * | | MOUNTING KEY; HONEYWELL |
| * | V00.24191 | |
| | X00.05193 | FIXING BRACKET FOR IONISATION PROBE |
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| Rep. | Reference | Description |
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| 1 | H20.32834 | FRONTPANEL GREY |
| 2 | Y00.20593 | WHITE STAND FOR EXPANSION VESSEL THR |
| 2 | Y09.34942 | STAND FOR EXPANSION VESSEL; WHITE |
| 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 | E00.03424 | NITRILE O'RING D. 8 X 2 80 SHORE |
| 13 | V00.21491 | PROTECTING RING 1 |
| 14 | W07.31542 | ELECTRICAL TERMINAL BOX |
| 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 21 | V07.31526 | STAINLESS STEEL BOILER SHELL THISION |
| | 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 | Y90.33464 | CHASSIS; EQUIPPED C/SEP |
| 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 | A00.24109 | ORANGE CAP D. 34,7 EZ-16 |
| 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 | U00.19252 | SUMP INLET THRC/S GREY |
| 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 | U00.19465 | HEATING FLOW PIPE GREY THRC |
| 50 | V90.33015 | SELECTOR VALVE KIT |
| 51 | L50.35152 | PRESSURE SENSOR HUBA TYPE 505.91540 |
| | | |

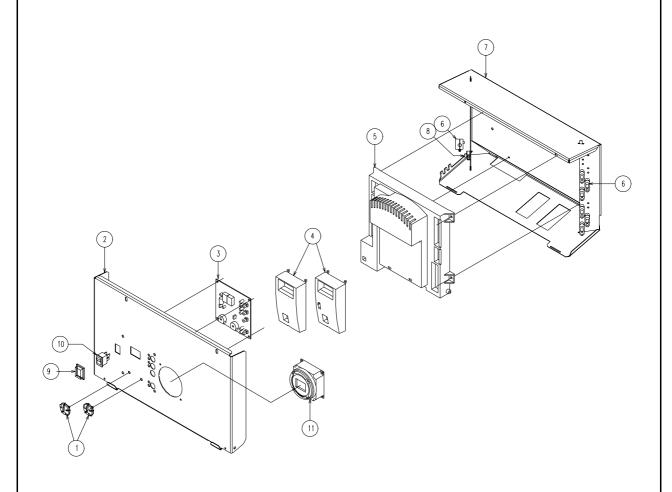
| Rep. | Reference | Description |
|------|------------------------|--|
| 51 | V90.35156 | REPLACEMENT SET OF IMIT SENSOR BY HUBA SENSOR |
| 52 | L20.31470 | SENSOR TASSERON NTC SENSOR M5 TSA-TYPE |
| 53 | L90.24178 | SAFETY VALVE |
| 54 | 120.21441 | MESSING SEALED CONNECTION "OLIVE" 22/1 |
| 55 | V00.23999 | STOP PLATE FOR HEATING AND DHW |
| 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 | L20.31471 | SENSOR T7335D1024B |
| 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 | 120.12056 | REDUCER D.12 D.4,60 |
| 69 | 120.31601 | GAS REDUCER GAZ D. |
| 70 | W07.32303 | OUTSIDE SENSOR .QAC34/101 THRI |
| 71 | O00.20679 | STAINLESS STEEL FLEXIBLE PIPE MALE 1/4 WITH ELBOW |
| 71 | O00.36107 | FLEXIBLE PIPE |
| 72 | L90.03520 | EXPANSION CYLIND, VESSEL 8L MALE 3/4 |
| 72 | L90.36106 | EXPANSION VESSEL 8L D.197 |
| 73 | A00.19059 | PLASTIC STOPPER MAL 9 WHITE |
| 74 | U00.23957 | TANK RETURN; GREY; THR |
| 75 | E20.03890 | SEALING AFM34 D 24X17X3 |
| 76 | W07.31704 | MOTOR; SELECTIVE VALVE WITH CABLE |
| 77 | L20.31472 | SENSOR;TASSERON NTCSENSOR CABLE TSK-TYPE |
| 78 | C15.15690 | LUMBERG 2 PTS SCREW PLUG 361102K15 |
| 79 | E20.25892 | RING 3/8 AFM34 D.14,5 (+0,3-0,1)X9 EP : 3 |
| 80 | K20.10719 | REDUCER MALE FEM F12/17 - M8/13 |
| 81 | E20.03901 | SEALING QUALITY AFM34 D.11X4X3 |
| * | 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 |
| * | | EPDM LIP SEAL D. 80 75 SHORE |
| * | E00.10822 E10.12503 | EPDM STICKING SEAL PIPE 6/9 LENGTH 18 |
| * | E10.12503 E20.24399 | GASKET DN 80; BLACK FOR PART NUMBER U00.12053 AND U00.20366 |
| * | I30.31973 | |
| * | U00.08190 | STOP TECHNYL D.20X19 VERSILIC PIPE 6X10 LENGTH 800MM |
| * | U00.08190 U00.11405 | VERSILIC PIPE 6X TO LENGTH 6000MIN VERSILIC SLEEVE 4X8 LENGTH 640 |
| * | | MOUNTING KEY: HONEYWELL |
| * | V00.24191 | |
| * | V07.31649 | GAS CONVERSION SET GN/GP THI 5-25 |
| * | X00.05193 X90.30472 | FIXING BRACKET FOR IONISATION PROBE IGNITION ANGLE WITH SCREW |
| | A90.30472 | IGNITION ANGLE WITH SCREW |
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| Rep. | Reference | Designation |
|------|------------------------|---|
| 1 | U07.31527 | GAS PIPE BURNER THISION |
| 2 | L10.33774 | FLANGE G 3/4" FOR SIT VALVE |
| 3 | L10.10607 | HONEYWELL O'RING 22 X 2,5 |
| 4 | A00.03141 | COLORLESS PLASTIC CAP |
| 5 | V90.33616 | WIRED SIT GAS VALVE SET |
| 5 | V90.37322 | GAS VALVE SIEMENS VGU 87 |
| 6 | Y90.35964 | WHITE COVER THRIM75V DT |
| 7 | V07.32114 | RING FOR BOILER COVER L685 |
| 8 | W07.32303 | OUTSIDE SENSOR .QAC34/101 THRI |
| 9 | H20.32834 | FRONTPANEL GREY |
| 10 | Y07.32845 | COMPLETE COVER GREY THI M75V |
| 11 | N40.16810 | REDUCED FLUE OUTLET PIPE F75/M80 L360 |
| 12 | W07.32382 | CONTROL BOX; WIRED; PROGRAMMED THI 5-25 M75 DT |
| 13 | K50.18085 | ANODE + CAP +SEALING 3/4-D.22X230 MAGNESIUM |
| 14 | 110.29477 | FLANGE FOR CLEANING DOOR |
| 15 | E20.10187 | SEALING / CLEANING DOOR |
| 16 | V07.32168 | 75 L DHW TANK; EQUIPPED;12 M; CONTACT SENSOR |
| 17 | U00.24123 | TANK OUTLET PIPE FOR THR M75 V |
| 18 | E20.03890 | SEALING AFM34 D 24X17X3 |
| 19 | V00.21467 | STOP PLATE FOR GAS + DHW THR M75 V |
| 20 | V00.21491 | PROTECTING RING 1 |
| 21 | 120.21452 | MESSING LOCK NUT 1 |
| 22 | V00.21492 | PROTECTING RING 3/4 |
| 23 | K20.03068 | MESSING LOCK NUT 3/4 |
| 24 | E20.25892 | RING 3/8 AFM34 D.14,5 (+0,3-0,1)X9 EP : 3 |
| 25 | U90.28983 | HEATING RETURN UNIT |
| 26 | E20.03901 | SEALING QUALITY AFM34 D.11X4X3 |
| 27 | V09.38039 | STOP PLATE ; TANK |
| 28 | V09.38039 V00.21466 | STOP PLATE , TANK STOP PLATE / HEATING FLOW PIPE THR |
| 29 | 120.21441 | MESSING SEALED CONNECTION "OLIVE" 22/1 |
| 30 | V90.33015 | SELECTOR VALVE KIT |
| | | |
| 31 | W07.31704 | MOTOR; SELECTIVE VALVE WITH CABLE |
| 32 | U00.15646 | BRAZED DHW-PIPE FOR THR M75 V |
| 33 | L50.35152 | PRESSURE SENSOR HUBA TYPE 505.91540 |
| 33 | V90.35156 | REPLACEMENT SET OF IMIT SENSOR BY HUBA SENSOR |
| 34 | L90.24178 | SAFETY VALVE |
| 35 | U00.24535 | LOW BRAZED BOILER FLOW PIPE FOR THR M75V |
| 36 | U07.38423 | RETURN PIPE UPSTREAM THRIL75V |
| 37 | L90.24597 | 10 LITER EXPANSION VESSEL |
| 38 | O00.34006 | FLEXIBLE FOR EXPANSION VESSEL MU 1/4"-CB 1/2" |
| 39 | A20.14915 | FLEXIBLE PIPE/SIPHON OUTLET D. 32 LENGTH 1300 |
| 40 | L30.31468 | GRUNDFOS CIRCULATING PUMP UPER 15-50 CACAO |
| 41 | A20.11061 | SIPHONIC TRAP PP D. 32 DEPTH 60 MM |
| 42 | V09.37159 | HOLDER FOR EXPANSION VESSEL; WHITE |
| 43 | U00.20427 | SUMP INLET PIPE GREY THRM75V |
| 44 | L90.24635 | AUTOMATIC AIR VALVE WATTS WITH ISOLATED VALVE |
| 45 | E00.01005 | O' RING DIA DIA 29,32 X 3,6 |
| 46 | U00.19944 | BOILE FLOW PIPE GREY THRM75 |
| 47 | Y90.33468 | CHASSIS ; EQUIPPED THI M75V |
| 48 | Y00.13849 | BACK STOP PLATE FOR MZ (3355X80,4X1,5) |
| 49 | C50.31464 | FAN MVL-EBM RG 128/1300-3612 |
| 50 | Y00.17570 | FLANGE FOR WHITE STAND FOR THR FAN |
| 51 | Y00.18233 | RIGHT HAND CONSOLE (269,4X25X1,5) |
| 52 | Y00.17569 | WHITE STAND FOR THR FAN |
| 53 | O90.16681 | PIPE BURNER / FAN (THR) |
| | | |

| Rep. | Reference | Designation |
|----------|-----------|---|
| 54 | B00.18392 | PIPE RING 41,1/44 |
| 55 | Y00.14139 | FASTENING HOOK |
| 56 | A00.19467 | GREY PLASTIC CAP MALE 75 |
| 57 | V07.31962 | WALL FASTENING; C MODEL |
| 58 | Y00.10807 | FIXING SYSTEM FOR FLUE PIPE |
| 59 | U00.20366 | ELBOW D. 80 45° |
| 60 | C90.31466 | IGNITION TRANSFORMER ANSTOSS ZAG 2XV 01/10 |
| 61 | Y00.18234 | LEFT HAND CONSOLE (269,4X25X1,5) |
| 62 | 120.12530 | AIR REDUCER D. 29 |
| 62 | 120.23374 | AIR REDUCER D. 27 THR 5-25 NG/LPG |
| 63 | L00.12950 | IONISATION PROBE (SHORT 20) |
| 64 | L00.16673 | IGNITION ELECTRODE SHORT 74,5 AV CABLE |
| 65 | X90.23481 | BURNER SET FOR THR 5-25 LPG |
| 65 | X90.26473 | BURNER KIT THR 5-25 GN |
| 66 | U07.31655 | GAS INLET; EQUIPPED; THISION M75V |
| 67 | X00.12864 | REMOVABLE PROTECTION FOR BURNER (580 X 30 X 1,5) |
| 68 | F00.26572 | GLASS BRAID RING D. 12 LG. 685 |
| 69 | L20.31470 | SENSOR TASSERON NTC SENSOR M5 TSA-TYPE |
| 70 | V07.31526 | STAINLESS STEEL BOILER SHELL THISION |
| 70 | | |
| | L20.31471 | SENSOR T7335D1024B |
| 72 | L20.31496 | SENSOR TASSERON NTC SENSOR D10X20 10K |
| 73 | U07.31498 | 90° ELBOW; D.80 DRILLED |
| 74 | B59.00692 | STAINLESS STEEL WASHER 30,4X25,5X0,3 |
| 75 70 | T40.01051 | INSIDE CIRCLIPS D.30 YELLOW BICHROMATE |
| 76 | T20.00582 | SIGHTGLASS PYREX D.30X5 |
| 77 | E20.03889 | SEALING AFM34D 30X21X3 |
| 78 | E20.23654 | EXTENSIBLE SEALING D. 18 / RED SILICONE |
| 79 | V90.19984 | ANODE CLEANING DOOR |
| 79 | V90.26382 | CLEANING DOORD (WITHOUT ANODE) |
| 80 | T25.31875 | FIXING PART; UPPER COVER |
| 81 | 120.13579 | BRASS NIPPLE MAL3/4-MAL3/4(LONG) |
| 82 | L20.32178 | SURFACE TEMP. SENSOR T7335D1073B |
| 83 | E00.03424 | NITRILE O'RING D. 8 X 2 80 SHORE |
| 84 | 120.12056 | REDUCER D.12 D.4,60 |
| 84 | 120.31601 | GAS REDUCER GAZ D. |
| 85 | A00.19059 | PLASTIC STOPPER MAL 9 WHITE |
| * | A00.28827 | PLASTIC CAP MALE 1/4 |
| * | A90.20473 | HANDLE FOR CLEANING DOOR, POLYETHYLENE |
| * | 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 |
| * | 130.24257 | DHW PIPE THRM70 |
| * | U00.03505 | FIXING BRACKET FOR BURNER MZ/THR |
| * | U00.11405 | VERSILIC SLEEVE 4X8 LENGTH 640 |
| * | U00.15255 | VERSILIC 6X10 LENGTH 1300 MM/DEGASIFIER OULET |
| * | V00.24191 | MOUNTING KEY; HONEYWELL |
| * | V07.31649 | GAS CONVERSION SET GN/GP THI 5-25 |
| * | V07.34145 | INSULATION TANK 75L BOX |
| * | W00.25015 | EARTH WIRE L600 |
| * | X00.05193 | FIXING BRACKET FOR IONISATION PROBE |
| * | X90.30472 | IGNITION ANGLE WITH SCREW |
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CONTROL BOX



PLW0731542

| Rep. | Reference | Description |
|------|-----------|--|
| 1 | H20.31449 | CONTROL BUTTON |
| 2 | Y07.31525 | CONTROL PANEL + STICKER |
| 3 | W07.31892 | INTERFACE; EQUIPPED; AGU2.303A136 |
| 4 | L20.31476 | COMMUNICATION MODULE CLIP-IN LPB (VOIR OPTION W07.30832) |
| 4 | L20.31477 | MODULE CIRCUIT 2 CLIP-IN (VOIR OPTION W07.30833) |
| 4 | L20.31499 | SUB-MODULE RELAIS CLIP-IN AGU2.511A109 (VOIR OPTION W07.30515) |
| 5 | L20.36214 | ELECTRONIC CONTROL UNIT LMU64.010D136 V3.03 |
| 6 | A90.27098 | CABLE GRIP D=6,5 MM BLACK |
| 6 | C91.38454 | CABLE FASTENING TWIST LOCK |
| 7 | Y07.31507 | ELECTR. BOX |
| 8 | C19.32006 | SCREW EARTH CONNECTION |
| 9 | C20.12490 | TIGHT CAP FOR SWITCH |
| 10 | C20.12487 | BIPOLAR SWITCH; BLACK/LIGHTNING/GREEN |
| 11 | L25.17432 | TIMER GRASSLIN 230 V FM - DIGI20 |
| * | C09.31469 | CABLE WITH RECTIFIER VDU GAS VALVE |
| * | C09.33608 | CABLE 0.960.401+CONNECT. GAS VALVE SIT 848 SIGMA |
| * | C09.37989 | IONISATION CABLE Ø 2,5 LG 1020 MM |
| * | C09.37989 | IONISATION CABLE Ø 2,5 LG 1020 MM |
| * | C90.31497 | COVER KEY-TOP 4X4 THISION |
| * | W07.31478 | WIRING OF THE CONTROL BOX |
| * | W07.31479 | WIRING OF THE CONTROL BOX; 10-50 MODEL |
| * | W07.31492 | CONNECTING CABLE LG LMU64/AGU2 |
| * | W07.31508 | ELECTR. CONTROL BOX + WIRING 2-13 THISION |
| * | W07.31542 | ELECTRICAL TERMINAL BOX |
| * | W07.31558 | ELECTR. CONTROL PANEL + WIRING 0,9-9 THISION |
| * | W07.31562 | CONTROL BOX PROGRAMMED THRI/THI 10-50C (DT) |
| * | W07.32380 | CONTROL BOX; WIRED; PROGRAMMED THI 5-25 S DT |
| * | W07.32381 | CONTROL BOX; WIRED; PROGRAMMED THI 2-13 M 75 DT |
| * | W07.32382 | CONTROL BOX; WIRED; PROGRAMMED THI 5-25 M75 DT |
| * | W07.32899 | CONTROL BOX; WIRED; PROGRAMMED THRI5-25SEP(DT) |
| * | W07.32995 | WIRING - TIMER THRI |
| * | W07.34114 | WIRED PROGRAMMED BOX THI 5-25/28 SEP GB/DK |
| * | W07.34211 | CONTROL BOX, PROGRAMMED, WIRED |
| * | W07.34228 | WIRED, PROGRAMM. CONTROL BOX THRI 5-25 M75H DC |
| * | W07.34974 | PROGRAMMED; CONTROL BOX WIRING |
| * | W07.35261 | CONTROL BOX ; PROGRAMMED WIRING THI 2-17 |
| * | W07.35314 | PROGRAMMED CONTROL BOX ; WIRING 2-17 B120 |
| * | W07.35319 | PROGRAMMED CONTROL BOX ; WIRING 2-17 B120 DC |
| * | W07.36535 | WIRED & PROGRAMMED CONTROL BOX THI 5-25 B120 GB |
| * | W07.36536 | WIRED & PROGRAMMED CONTROL BOX THI 5-25 B120 DC |
| * | W07.36930 | CONTROL BOX ; WIRED ; PROGRAMMED |
| * | W07.37986 | SUPPLY CABLE 230V THRI |
| * | W07.37991 | CABLE TRANSFORMER+MASS THRI BURNER |
| * | W07.37992 | SWITCH CABLE THRI |
| * | W07.37995 | FAN CABLE THRI |
| * | W07.37996 | FAN CABLE THRI |
| * | W07.37998 | MASS CABLE THRI COVER |
| * | W07.38000 | SENSORS CONNECTION THRI |
| * | W07.38001 | CABLE PWM FOR THRI FAN |
| * | W07.38002 | FAN PWM CABLE THRI 10-50C |
| * | W07.38004 | SENSORS CONNECTION THRI 10-50 C |
| * | W07.38379 | FAN CABLE THRI/THISION/THI 10-50 |
| * | W09.37943 | WIRING DHW SENSOR ZEM B120/SEP/M50 |
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