



Heat technology since 1959

Setting Instruction Manual for boilers with **DIAGNOCODE SM 20015**

Printed Circuit Board
mod.

RSF 30 E

RMA 24 E • RMA 24 E • RMA 24 E • RMA 30 E

RMA 21 E NOx • RMA 21 E/3S

RBA 24 E • RBA 35 E • RBA 100 E

RBA CS 24 E • RBA CS 30 • RBA CS 100 E • RBA CS 30/100

RMA 20 E/Plusbox • RMA 24 E/Maxibox • RMA 30 E/Superbox



INDEX

CONTROL PANEL		page	1
DIAGNOCODE SM 20015 ELECTRONIC PRINTED CIRCUIT BOARD:		page	2
ERROR CODES		page	3
FUNCTIONS CODES		page	3
PARAMETERS TABLE		page	4
Parameters Setting procedure	No. 1	page	5
	2	page	5
	3	page	6
	4	page	6
	5	page	7
	6	page	7
	7	page	8
	8	page	8
	9	page	9
	10	page	9
	11	page	10-11
GAS PRESSURE DIAGRAMS		page	12-13
ELECTRICAL WIRING DIAGRAMS		page	14-16

CONTROL PANEL



1 ON / OFF POWER BUTTON



14 TEMPERATURE AND ERROR CODES DISPLAY



2 HEATING TEMPERATURE ADJUSTMENT KNOB



13 WATER DEFICIENCY INDICATOR



3 DOMESTIC HOT WATER TEMPERATURE ADJUSTMENT KNOB



12 WATER PRESSURE LEVEL 1 BAR INDICATOR



6 MODE SELECTION PAD (SUMMER ONLY / WINTER ONLY / SUMMER AND WINTER)



11 WATER PRESSURE LEVEL 1.5 BAR INDICATOR



5 CHIMNEY-SWEEPER SELECTION PAD / PARAMETER SETTING SERVICE PAD



10 GENERAL LOCK-OUT WITH FLASHING ERROR CODE ON DISPLAY



4 OUTSIDE TEMPERATURE DISPLAY PAD (ONLY WITH OPTIONAL OUTSIDE TEMPERATURE SENSOR FITTED)

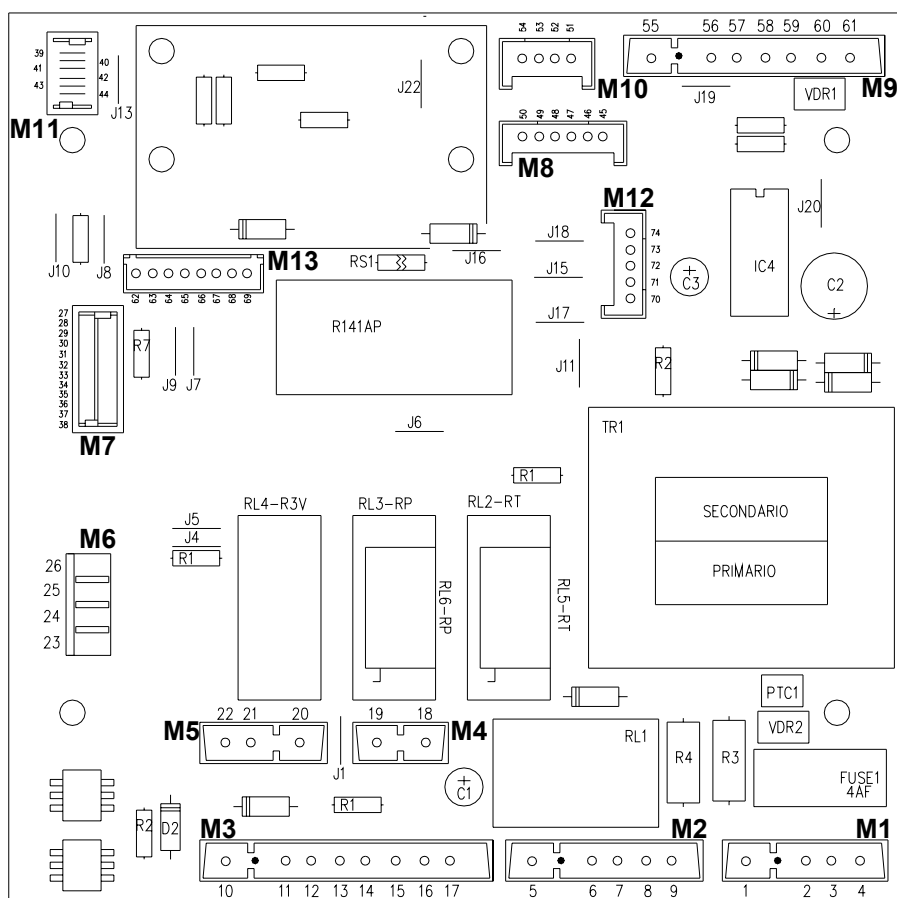


9 HEATING MODE (STABLE LIGHT)
HEATING OPERATION (FLASHING LIGHT)



8 DOMESTIC HOT WATER MODE (STABLE LIGHT);
DOMESTIC HOT WATER OPERATION (FLASHING LIGHT).

DIAGNOCODE SM 20015 ELECTRONIC PRINTED CIRCUIT BOARD cod. 76655LA



TECHNICAL SPECIFICATION

New generation printed circuit board with easy settings of boiler parameters.

Special features :

Exclusively for technicians settings

- Standard / reduced heating temperature
- Water-Hammer prevention function
- Short cycling function-3 minutes, heating circuit
- Pump overrun function - heating circuit
- Pump overrun function - dom. hot water circuit
- Minimum output setting
- Maximum heating output setting

- Heating temperature adjustment from 30 to 80 °C
- Domestic Hot Water adjustment from 35 to 65 °C
- Mode Selection: summer only / winter only / summer and winter
- Lock-out
- Normal water pressure
- Water deficiency safety switch
- Temperature display

User settings

- On / Off operation

ERROR CODES:

- 1** IONISATION LOCK-OUT
- 2** HIGH LIMIT THERMOSTAT LOCK-OUT
- 3** FLUE SAFETY THERMOSTAT LOCK-OUT (FOR OPEN CHAMBER MODELS ONLY)
- 4** WATER PRESSURE SWITCH LOCK-OUT
- 5** HEATING SENSOR FAILURE
- 6** DOMESTIC HOT WATER SENSOR FAILURE
- 12** STORAGE TANK WATER SENSOR FAILURE
- 14** AIR PRESSURE SWITCH LOCK-OUT
- 22** REQUEST OF PARAMETERS RE-SETTING

FUNCTIONS CODES

CODE	TYPE OF FUNCTION	DESCRIPTION
7	CHIMNEY-SWEEPER FUNCTION ON	THE CHIMNEY-SWEEPER FUNCTION IS ACTIVATED BY KEEPING PRESSED "SERVICE" PAD FOR 5 SECONDS. TO CANCEL IT RESET THE UNIT BY PUSHING ON/OFF BUTTON. THIS FUNCTION BRINGS THE UNIT TO THE MAX HEATING GAS PRESSURE FOR 15 MINUTES WITHOUT MODULATING DOWN. IT IS USEFUL WHILE CARRYING ON THE COMBUSTION TEST.
8	ANTI-FROST FUNCTION HEATING CIRCUIT	THIS FUNCTION COMES INTO OPERATION WHEN THE HEATING SENSOR SENSES A 5°C TEMPERATURE. THE BOILER STARTS AT THE MINIMUM GAS PRESSURE, WITH THE 3-WAY VALVE IN WINTER POSITION. THE BOILER STOPS WHEN THE TEMPERATURE TAKEN BY THE SENSOR HAS REACHED 30°C .
9	ANTI-FROST FUNCTION DOMESTIC HOT WATER CIRCUIT	THIS FUNCTION COMES INTO OPERATION WHEN THE HOT WATER SENSOR SENSES A 4 °C TEMPERATURE. THE BOILER STARTS AT THE MINIMUM GAS PRESSURE, WITH THE 3-WAY VALVE IN SUMMER POSITION AND HEATS THE HOT WATER CIRCUIT. THE BOILER STOPS WHEN THE TEMPERATURE TAKEN BY THE HOT WATER SENSOR HAS REACHED 8°C .
13	ANTI-FROST FUNCTION D.H.W. CIRCUIT - STORAGE BOILERS.	SAME OPERATION AS THE ANTI-FROST FUNCTION OF D.H.W. CIRCUIT FOR INSTANTANEOUS BOILERS.
28	LEGIONELLA PREVENTION FUNCTION.	FUNCTION ACTIVE FOR STORAGE BOILERS ONLY. IT COMES INTO OPERATION EVERY 7 DAYS . IT BRINGS THE HOT WATER TEMPERATURE OF THE STORAGE CYLINDER UP TO 60°C WHATEVER TEMPERATURE VALUE IS SET FOR HOT WATER.
31	NOT COMPATIBLE REMOTE CONTROL.	THIS CODE IS DISPLAYED WHEN THE REMOTE CONTROL OR OUTSIDE TEMPERATURE SENSOR CONNECTED ARE NOT ORIGINAL RADIANT PARTS.






















PARAMETERS TABLE

PARAMETER NUMBER	TYPE OF OPERATION	PARAMETER VALUE	FUNCTION	page
0	BOILER TYPE SELECTION	00 ❖ 01	WALL MOUNTED OR FLOOR STANDING OIL FLOOR STANDING UNIT	
1	BOILER TYPE SELECTION	00 01 02	INSTANTANEOUS WITH STORAGE CYLINDER WITH STORAGE CYLINDER-COMFORT (+ 7°C)	3
2	GAS TYPE SELECTION	00 01	NATURAL GAS L.P.G.	4
3	HEATING TEMPERATURE SETTING	00 01	STANDARD: from 30 to 80°C REDUCED : from 25 to 40°C	5
4	PUMP SETTING IN HEATING MODE	00 01	STANDARD (PUMP OVERRUN 3") PERMANENT (PUMP ON ALL THE TIME)	6
5	WATER-HAMMER PREVENTION SETTING	00 01	EXCLUDED ACTIVE (2" STANDBY)	7
6	SHORT CYCLING FUNCTION - HEATING CIRCUIT (FACTORY CALIBRATED AT 180" - PARAMETER VALUE "36")	00 - 90	EXPRESSED IN STEPS OF 5 SEC. Ex. 90 x 5 = 450" (7.5 MIN.)	8
7	PUMP OVERRUN - HEATING CIRCUIT (FACTORY CALIBRATED AT 180"- PARAMETER VALUE "36")	00 - 90	EXPRESSED IN STEPS OF 5 SEC. Ex. 90 X 5 = 450" (7.5 MIN.)	9
8	PUMP OVERRUN DOM. HOT WATER CIRCUIT (FACTORY CALIBRATED AT 90")	00 - 90	EXPRESSED IN STEPS OF 5 SEC. Ex. 90 X 5 = 450" (7.5 MIN.)	10
9	MIN. GAS MODULATION SETTING	0 – 50%	FACTORY CALIBRATED (Mechanical minimum)	-
10	MINIMUM HEATING OUTPUT SETTING	0 – 50%	FACTORY CALIBRATED	-
11	MAXIMUM GAS PRESSURE SETTING - MAXIMUM HEATING OUTPUT SETTING	MAX GAS - 99		11

❖ Parameter cancelled starting from June 2003





















Parameter 1 setting: **BOILER TYPE SELECTION**

To modify the *Parameter value*:

- a. Put ON/OFF button 1  in **OFF position** (⬇️);
- b. Push pad 6  and  simultaneously and keep them pressed;
- c. Put ON/OFF button 1  in **ON position** (⬆️) and wait until the display shows ;
- d. Release pad 6  and ;
- e. Keeping pad 5  pressed, press pad 6  and select parameter no. ;
- f. Release service pad 5 ; press and release service pad 5 ;
- g. The display  will show the parameter value to be set or modified;
- h. Press pad 6  or  to modify (increase or decrease) the parameter value  *instantaneous type*,  *storage type* or  *storage type comfort*;
- i. Press and release service pad 5  to confirm setting;
- j. The display will show parameter no. ;
- k. Position ON/OFF button 1  first in OFF position (⬇️) and back to ON position (⬆️);
















Parameter 2 setting: **GAS TYPE SELECTION**

To modify the *Parameter value*:

- a. Put ON/OFF button 1  in **OFF position** (⬇️);
- b. Push pad 6  and  simultaneously and keep them pressed;
- c. Put ON/OFF button 1  in **ON position** (⬆️) and wait until the display shows ;
- d. Release pad 6  and ;
- e. Keeping pad 5  pressed, press pad 6  and select parameter no. ;
- f. Release service pad 5 ; press and release pad service ;
- g. The display  will show the parameter value to be set or modified;
- h. Press pad 6  or  to modify (increase or decrease) the parameter value  *NATURAL GAS*,  *L.P.G*;
- i. Press and release service pad  to confirm setting;
- j. The display will show parameter no. ;
- k. Position ON / OFF button 1  first in OFF position (⬇️) and back to ON position (⬆️);
















Parameter 3 setting: HEATING TEMPERATURE SETTING

To modify the *Parameter value*:

- a. Put ON/OFF button **1**  in **OFF** position (⏏);
- b. Push pad **6**  and  simultaneously and keep them pressed;
- c. Put ON/OFF button **1**  in **ON** position (⏏) and wait until the display shows **PL - 0**;
- d. Release pad **6**  and ;
- e. Keeping pad **5**  pressed, press pad **6**  and select parameter no. **3**;
- f. Release service pad **5** ; press and release service pad **5** ;
- g. The display  will show the parameter value to be set or modified;
- h. Press pad **6**  or  to modify (increase or decrease) the parameter value **00** STANDARD from 30 to 80°C, **01** REDUCED from 25 to 40°C ;
- i. Press and release service pad **5**  to confirm setting;
- j. The display will show parameter no. **3**;
- k. Position ON/OFF button **1**  first in OFF position (⏏) and back to ON position (⏏);
















Parameter "4" setting: PUMP SETTING IN HEATING MODE

To modify the *Parameter value*:

- a. Put ON/OFF button **1**  in **OFF** position (⏏);
- b. Push pad **6**  and  simultaneously and keep them pressed;
- c. Put ON/OFF button **1**  in **ON** position (⏏) and wait until the display shows **PL - 0**;
- d. Release pad **6**  and ;
- e. Keeping pad  pressed, press pad **6**  and select parameter no. **4**;
- f. Release service pad ; press and release service pad ;
- g. The display  will show the parameter value to be set or modified;
- h. Press pad **6**  or  to modify (increase or decrease) the parameter value **00** STANDARD (pump overrun), **01** PERMANENT (pump ON all the time);
- i. Press and release service pad  to confirm setting;
- j. The display will show parameter no. **4**;
- k. Position ON/OFF button **1**  first in OFF position (⏏) and back to ON position (⏏);
















Parameter 5 setting: **WATER-HAMMER PREVENTION SETTING**

To modify the *Parameter value*:

- Put ON/OFF button **1**  in **OFF** position (⏻);
- Push pad **6**  and  simultaneously and keep them pressed;
- Put ON/OFF button **1**  in **ON** position (⏻) and wait until the display shows **PL** - **0**;
- Release pad **6**  and ;
- Keeping pad  pressed, press pad **6**  and select parameter no. **5**;
- Release service pad ; press and release service pad ;
- The display  will show the parameter value to be set or modified;
- Press pad **6**  or  to modify (increase or decrease) the parameter value **00** EXCLUDED, **01** ACTIVE – 2 sec. Stand by;
- Press and release service pad  to confirm setting;
- The display will show parameter no. **5**;
- Position ON/OFF button **1**  first in OFF position (⏻) and back to ON position (⏻);


















Parameter 6 setting: **SHORT CYCLING FUNCTION - HEATING CIRCUIT - adjustable from 0 to 7.5 minutes** **Factory calibrated at 3 minutes STANDBY**

To modify the *Parameter value*:

- Put ON/OFF button **1**  in **OFF** position (⏻);
- Push pad **6**  and  simultaneously and keep them pressed;
- Put ON/OFF button **1**  in **ON** position (⏻) and wait until the display shows **PL** - **0**;
- Release pad **6**  and ;
- Keeping pad  pressed, press pad **6**  and select parameter no. **6**;
- Release service pad ; press and release service pad ;
- The display  will show the parameter value to be set or modified;
- Press pad **6**  or  to modify (increase or decrease) the parameter value from **00** to **90** (factory calibrated **36** = 3 minutes);
- Press and release service pad  to confirm setting;
- The display will show parameter no. **6**;
- Position ON/OFF button **1**  first in OFF position (⏻) and back to ON position (⏻);


















Parameter 7 setting: PUMP OVERRUN - HEATING CIRCUIT adjustable from 0 to 7.5 minutes.
Factory calibrated at 3 minutes STANDBY.
(N.B. DO NOT set the overrun time under 3 minutes)

To modify the *Parameter value*:

- a. Put ON/OFF button **1**  in OFF position (⏻);
- b. Push pad **6**  and  simultaneously and keep them pressed;
- c. Put ON/OFF button **1**  in ON position (⏻) and wait until the display shows **PL** - **0**;
- d. Release pad **6**  and ;
- e. Keeping pad  pressed, press pad **6**  and select parameter no **7** ;
- f. Release service pad ; press and release service pad ;
- g. The display  will show the parameter value to be set or modified;
- h. Press pad **6**  or  to modify (increase or decrease) the parameter value from **00** to **90** (factory calibrated **36** = to 3 minutes);
- i. Press and release service pad  to confirm setting;
- j. The display will show parameter no. **7** ;
- k. Position ON/OFF button **1**  first in OFF position (⏻) and back to ON position (⏻);

Parameter 8 setting: PUMP OVERRUN - DOMESTIC HOT WATER CIRCUIT adjustable from 0 to 7.5 minutes.
Factory calibrated at 1.30 minutes STANDBY.
(N.B. DO NOT set the overrun time under 1.30 minutes)

To modify the *Parameter value*:

- a. Put ON/OFF button **1**  in OFF position (⏻);
- b. Push pad **6**  and  simultaneously and keep them pressed;
- c. Put ON/OFF button **1**  in ON position (⏻) and wait until the display shows **PL** - **0**;
- d. Release pad **6**  and ;
- e. Keeping pad  pressed, press pad **6**  and select parameter no. **8** ;
- f. Release service pad ; press and release service pad ;
- g. The display  will show the parameter value to be set or modified;
- h. Press pad **6**  or  to modify (increase or decrease) the parameter value from **00** to **90** (factory calibrated **18** = to 90 seconds);
- i. Press and release service pad  to confirm setting;
- j. The display will show parameter no. **8** ;
- k. Position ON/OFF button **1**  first in OFF position (⏻) and back to ON position (⏻);

9: Mechanical minimum gas pressure setting






















The mechanical minimum gas pressure is factory calibrated on all boilers at 17/18 mmH2O.

When replacing the gas valve adjust the mechanical minimum pressure as follows:

- Using a single cut screwdriver turn **D** screw (fig.1) clockwise and tight it ;
- To adjust the mechanical minimum, turn **D** screw (fig.1) counter-clockwise for two complete turns.

Parameter 10 setting: MINIMUM HEATING OUTPUT SETTING

To check or modify the existing pressure value:

- insert a manometer into the gas valve pressure point **B** (fig.1);
- Put ON / OFF button **1**  in **OFF** position ();
- Push pad **6**  and  simultaneously and keep them pressed;
- Put ON / OFF button **1**  in **ON** position () and wait until the display shows ;
- Release pad **6**  and ;
- Keeping pad  pressed, press pad **6**  and select parameter no. ;
- Release service pad , press and release service pad ;
- The display  will show the parameter value to be set or modified;
- The manometer inserted in the pressure point **B** (fig. 1) will show the minimum gas pressure;
- If that value is different than the one stated on the data plate, modify it by pressing pad **6**  to increase or pad  to decrease gas pressure ;
- Once the minimum gas pressure has been adjusted, switch the boiler OFF by putting ON / OFF button **1**  in **OFF** position ();
- Remove the silicon pipe from the pressure point **B** (fig.1), close tightly the pressure point screw and make sure there are no gas leaks;
- Position the ON / OFF button **1**  in ON position ();

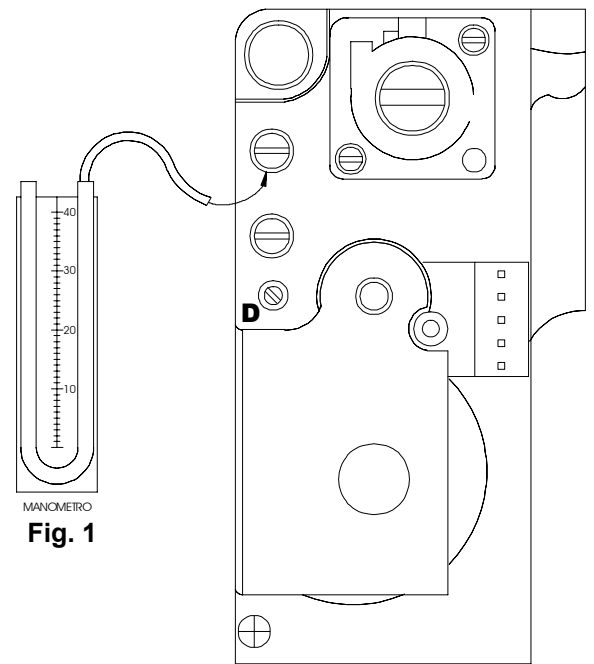


Fig. 1

Gas valve VK 4105G

Parameter 11 setting: MAXIMUM GAS PRESSURE SETTING - MAXIMUM HEATING OUTPUT SETTING

To check or modify the existing pressure value:

a. Insert a manometer into the gas valve pressure point B (fig. 1);

b. Put ON / OFF button 1  in OFF position (⤵);

c. Push pad 6  and  simultaneously and keep them pressed;


d. Put ON / OFF button 1  in ON position (⤴) and wait until the display shows **PL** - **0**;


e. Release pad 6  and ;


f. Keeping pad  pressed, press pad 6  and select parameter no. **11**;

g. Release service pad , press and release service pad ;

h. The display **11** will show the parameter value to be set or modified;

i. Press pad 6  to reach value **99** on display;

j. Once the parameter value "99" has been reached, press and release service pad  the display will show value **11**;

k. Position ON/OFF button 1  in OFF position (⤵) and back to ON position (⤴);

l. Open the hot water tap at the maximum flow and temperature to switch the boiler ON;

m. The manometer inserted in the pressure point B (fig. 1) will show the maximum gas pressure

n. If that value is different than the one stated in the data plate (see Gas Pressure adjustment table) modify it as follows:

o. Remove the aluminium cap A (fig.1) and, with a screwdriver, turn the plastic screw;

p. Turn clockwise to increase gas pressure and counter clockwise to decrease gas pressure;

q. Once the maximum gas pressure has been adjusted screw aluminium cap A back to position onto the gas valve;

r. Switch the boiler OFF by putting ON/OFF button 1  in OFF position (⤵);

s. Remove the silicon pipe from the pressure point B (fig.1), close tightly the pressure point screw and make sure there are no gas leaks.

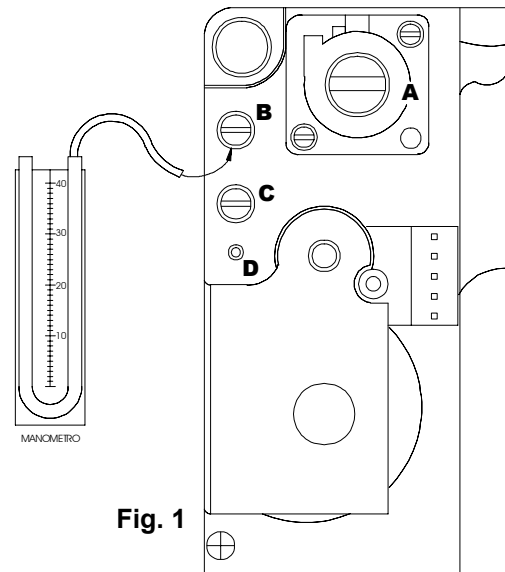




















Fig. 1

Gas valve VK 4105G

Parameter 11 setting: **MAXIMUM HEATING OUTPUT SETTING**

To check or modify the existing pressure value:

- a. Insert a manometer into the gas valve pressure point **B** (fig.1);
- b. Put ON/OFF button **1**  in OFF position (⤵);
- c. Push pad **6**  and  simultaneously and keep them pressed;
- d. Put ON/OFF button **1**  in ON position (⤴) and wait until the display shows ;
- e. Release pad **6**  and ;
- f. Keeping service pad  pressed, press pad **6**  and select parameter no. ;
- g. Release service pad  press and release service pad ;
- h. The display  will show the parameter value to be set or modified;
- i. Press pad **6**  to increase or pad  to decrease gas pressure according to heating system kW (output) requirement as per table 1 (the gas pressure value will be displayed in the manometer);
- j. Once the required pressure has been reached, press and release service pad , the display will show value ;
- t. Position the ON/OFF button **1**  in OFF position (⤵)
- k. Remove the silicon pipe from the pressure point **B** (fig.1), close tightly the pressure point screw and make sure there are no gas leaks;
- l. Put the ON/OFF button in ON position (⤴);

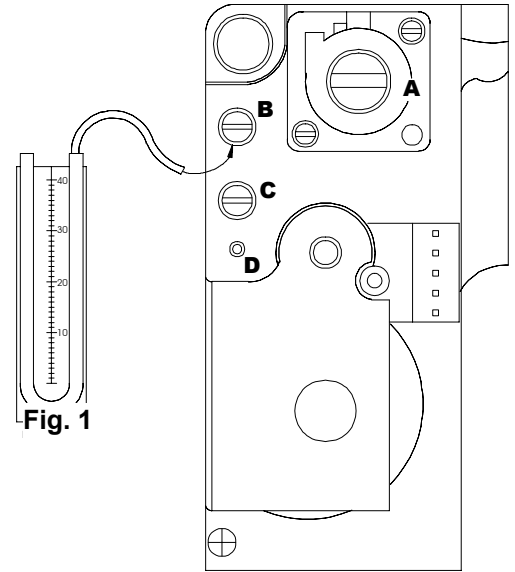
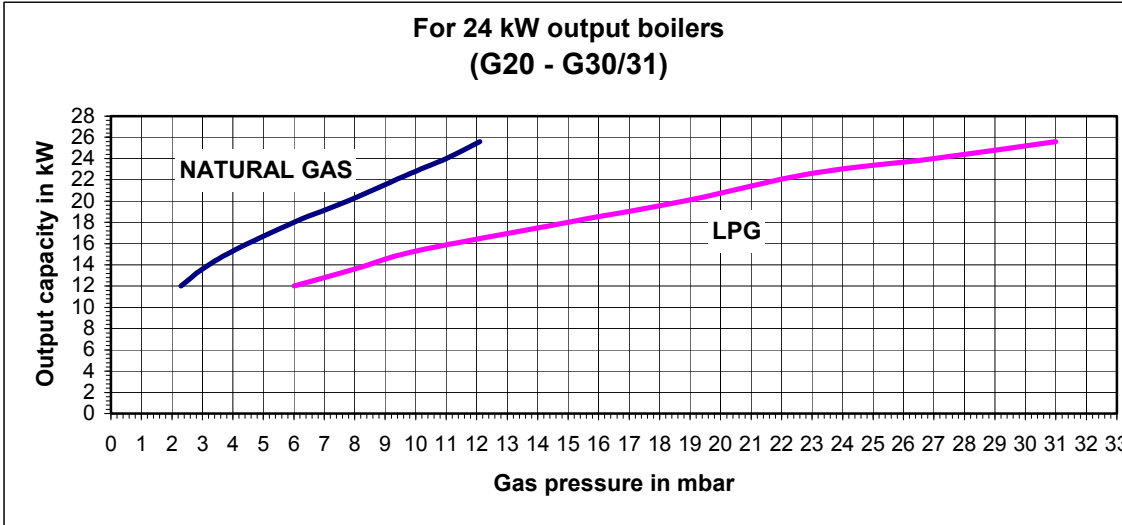


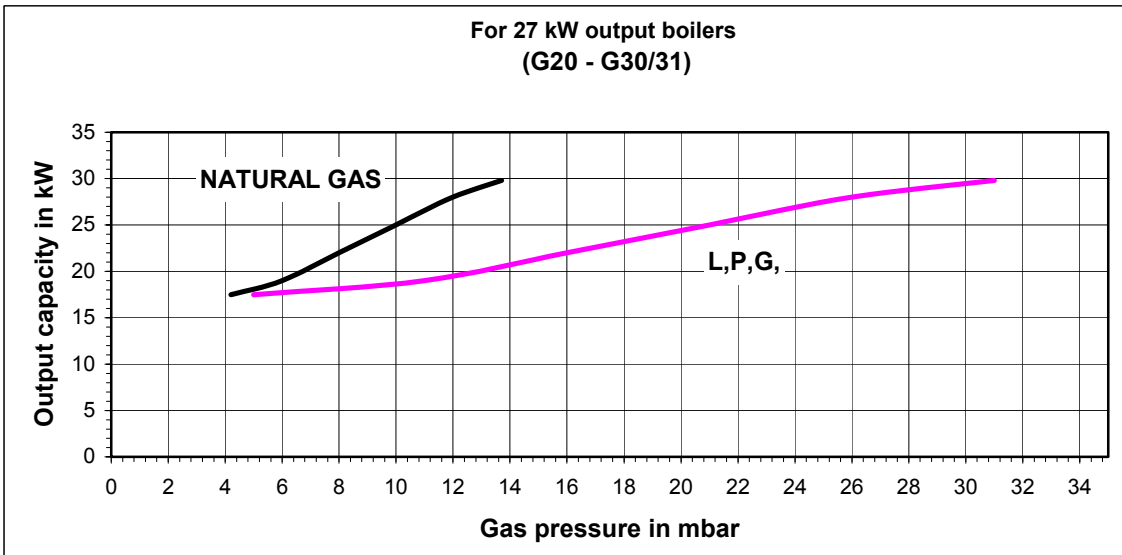
Fig. 1

Gas valve VK 4105G

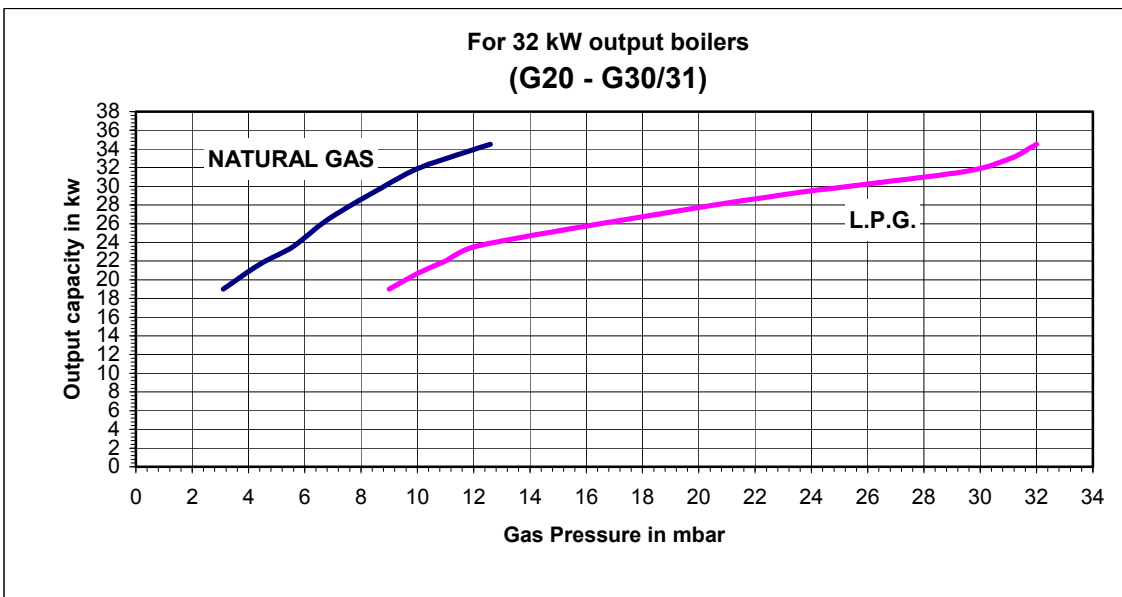
MAXIMUM HEATING OUTPUT GAS PRESSURE DIAGRAMS



mod.
RMAS 20 E
RMAS 20 E /Plusbox

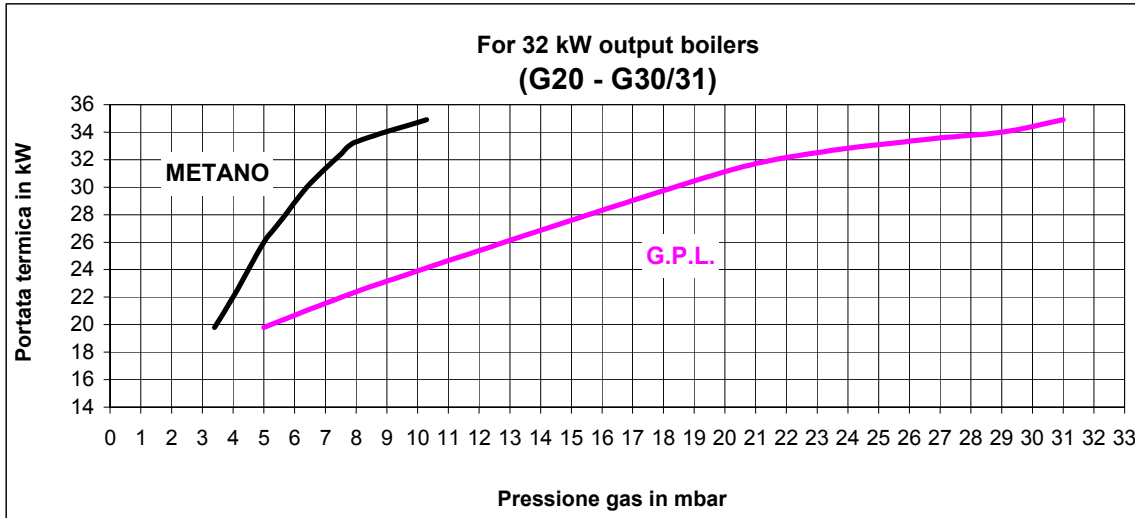


mod.
RMA 24 E
RMAS 24 E
RBA 24 E
RBA CS 24 E
RBA 100 E
RBA CS 100 E
RMAS 24 E / Maxibox

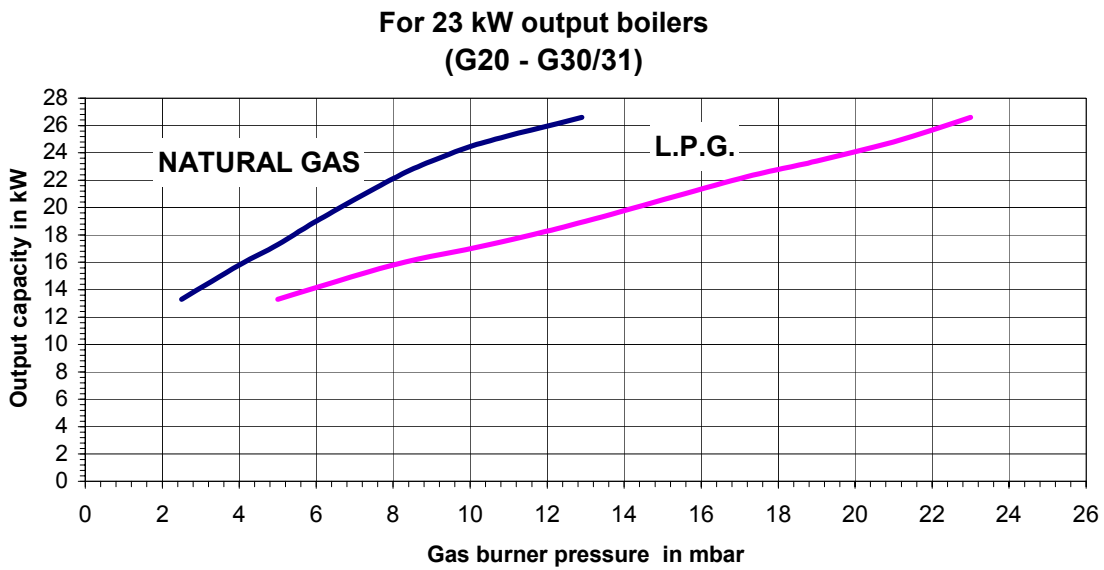


mod.
RMAS 30 E
RBA CS 30
RBA CS 30/100
RMAS 30 / Superbox

MAXIMUM HEATING OUTPUT GAS PRESSURE DIAGRAM



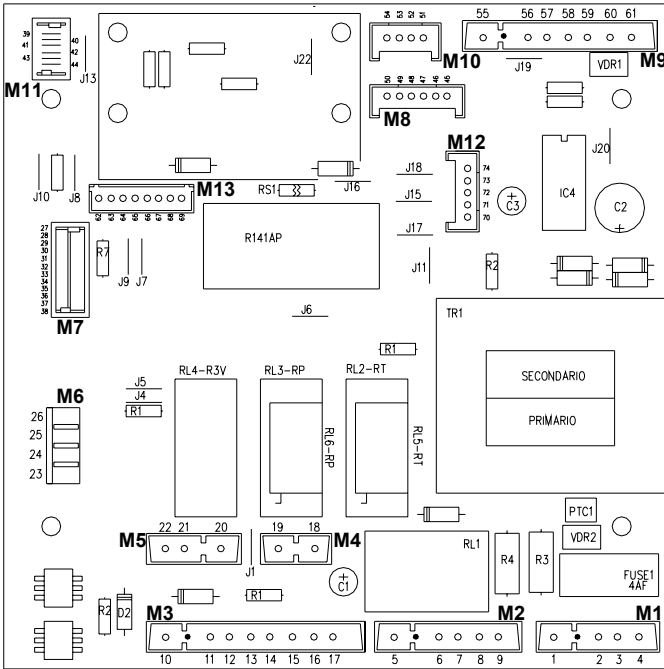
mod.
RBA 35 E



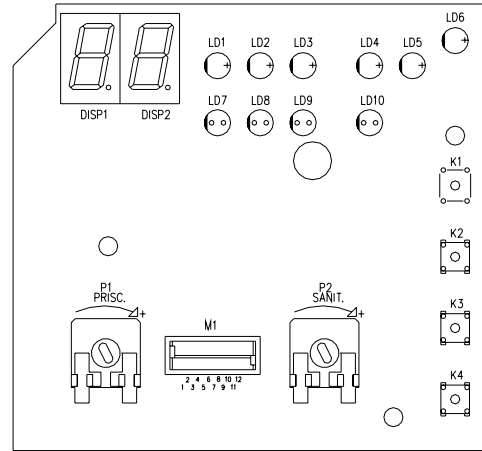
mod.
RMA 21 E NOx
RMAS 21 E/3S

WIRING DIAGRAMS – OPEN COMBUSTION CHAMBER BOILERS

PRINTED CIRCUIT BOARD CVI-M SM20015 (cod. 76655LA)

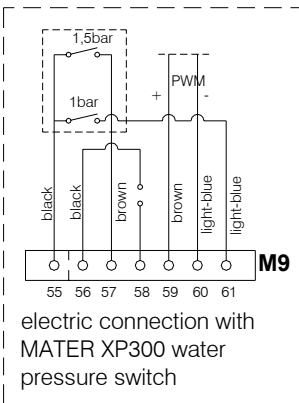


DISPLAY DIGITAL BOARD 2000 SKO6206 (COD. 76654LA)

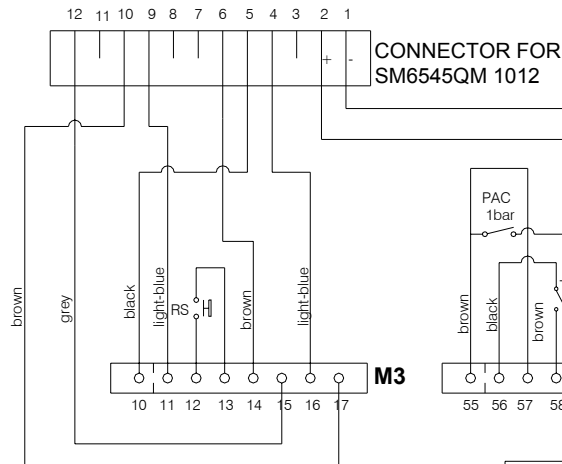
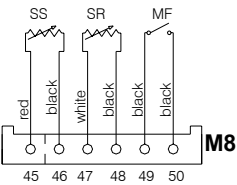
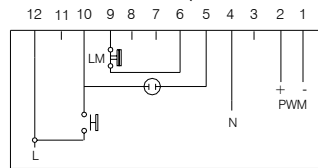


KEY

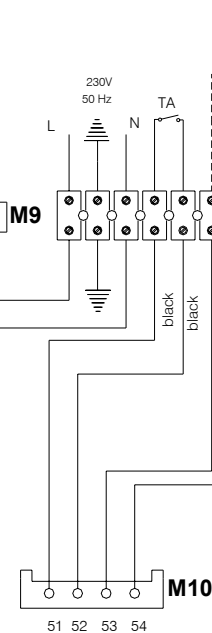
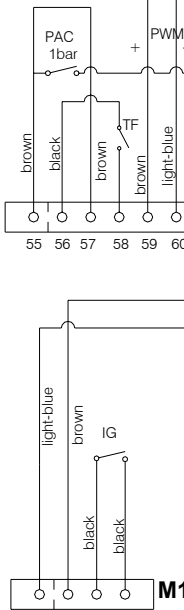
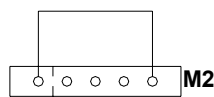
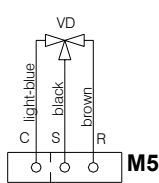
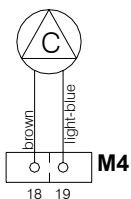
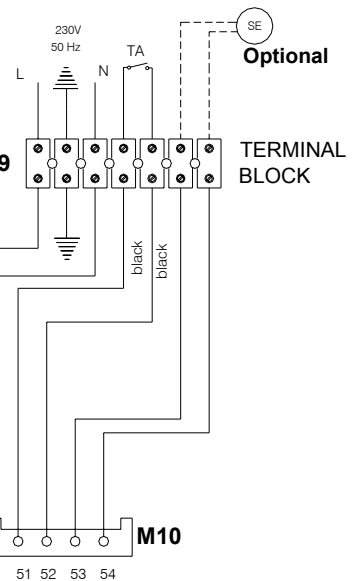
- L - LINE
- N - NEUTRAL
- TF-RS - FLUE SAFETY THERMOSTAT
- PAC - WATER PRESSURE SWITCH
- MF - ELECTRONIC FLOWSWITCH
- IG - MAIN SWITCH
- SS - D.H. WATER SENSOR
- SR - HEATING SENSOR
- C - CIRCULATION PUMP
- TS - SAFETY THERMOSTAT
- SE - OUTDOOR SENSOR TEMPERATURE
- TA - ROOM THERMOSTAT
- VD - 3-WAY DIVERTER VALVE
- EA - IGNITION ELECTRODE
- ER - IONISATION ELECTRODE



ELECTRONIC IGNITION BOARD CVI S4565 A 2019B (COD. 76631LA)

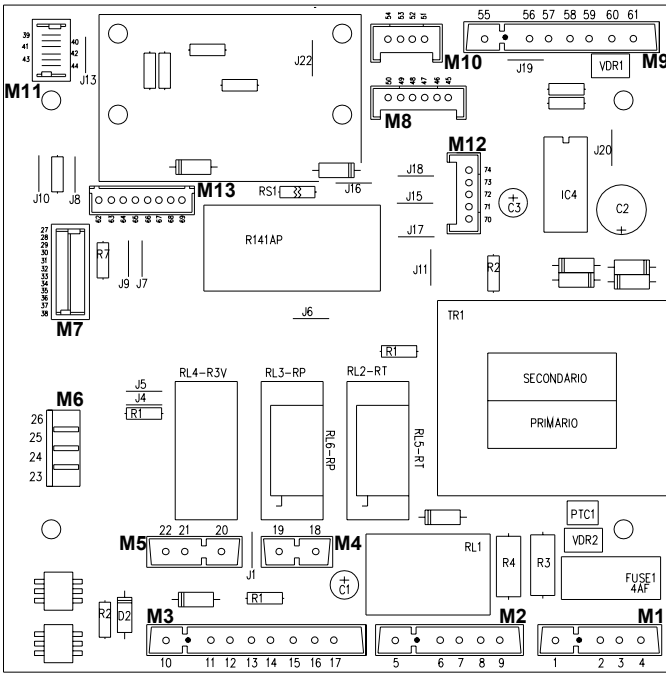


CONNECTOR FOR SM6545QM 1012

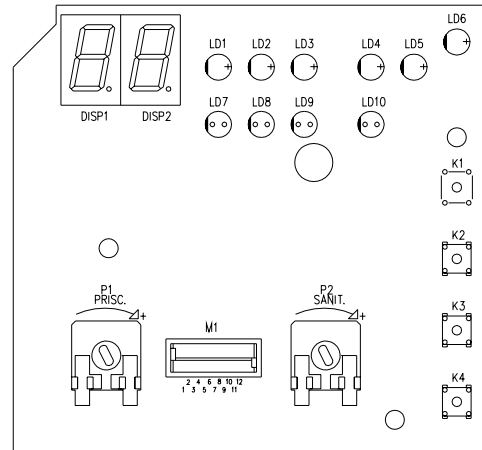


WIRING DIAGRAMS - ROOM SEALED BOILERS

PRINTED CIRCUIT BOARD CVI-M SM20015 (cod. 76655LA)



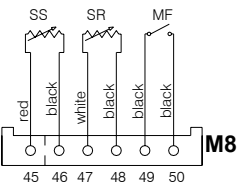
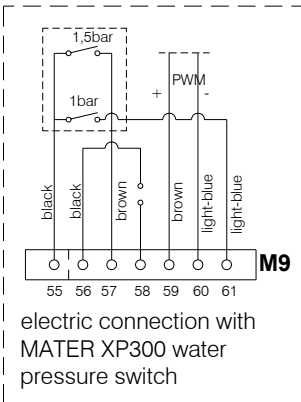
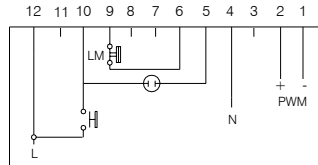
DISPLAY DIGITAL BOARD 2000 SKO6206 (COD. 76654LA)



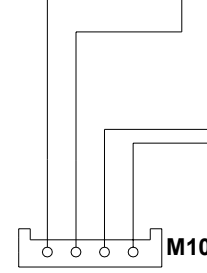
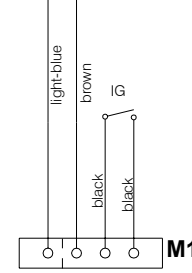
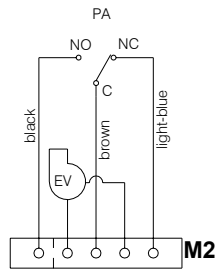
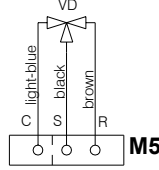
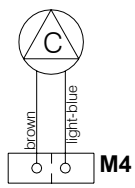
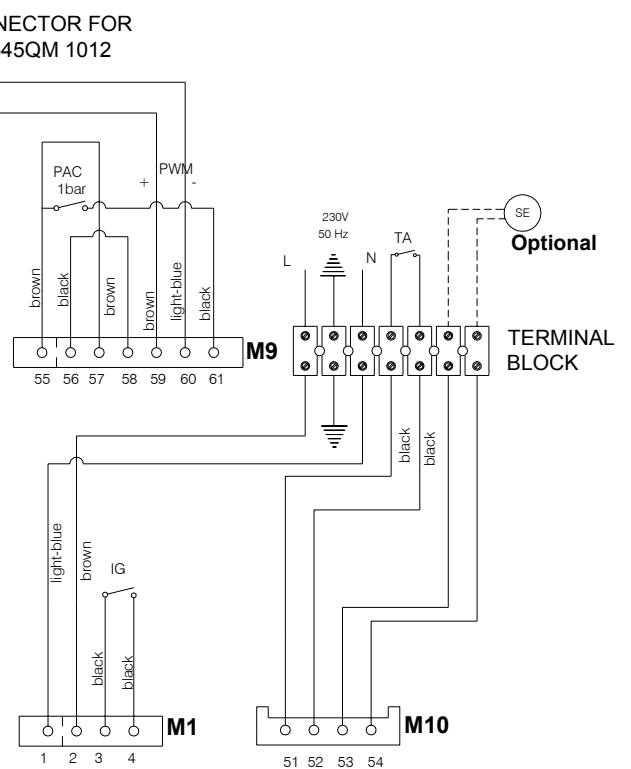
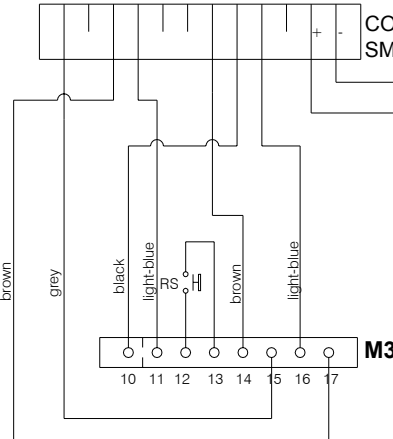
KEY

- L - LINE
- N - NEUTRAL
- PA - AIR PRESSURE SWITCH
- PAC - WATER PRESSURE SWITCH
- MF - ELECTRONIC FLOWSWITCH
- IG - MAIN SWITCH
- SS - D.H. WATER SENSOR
- SR - HEATING SENSOR
- C - CIRCULATION PUMP
- TS - SAFETY THERMOSTAT
- SE - OUTDOOR SENSOR TEMPERATURE
- TA - ROOM THERMOSTAT
- VD - 3-WAY DIVERTER VALVE
- EA - IGNITION ELECTRODE
- ER - IONISATION ELECTRODE
- EV - FAN

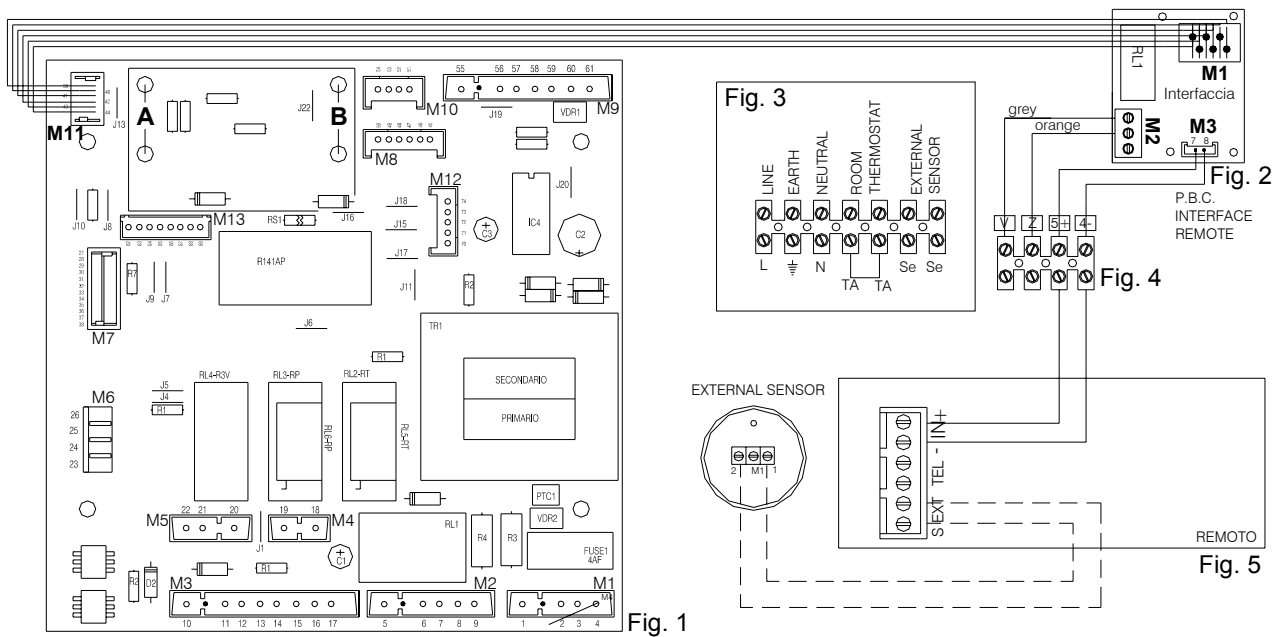
ELECTRONIC IGNITION BOARD CVI S4565 A 2019B (COD. 76631LA)



CONNECTOR FOR SM6545QM 1012



WIRING DIAGRAM FOR REMOTE CONTROL INSTALLATION (no zone valves)

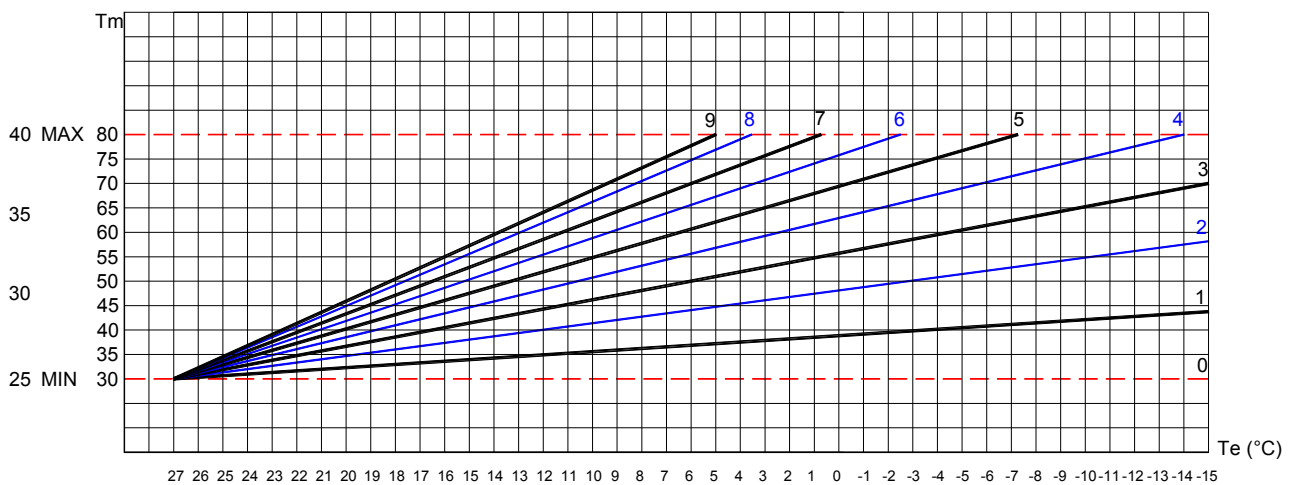


Fit the interface (fig. 2) on the circuit board (fig. 1) into the holes A and B provided (see fig. 1).
 Connect plug M1 on the interface circuit board (fig. 2) to plug M11 on the modulation circuit board (fig. 1).
 Connect the grey and orange wires in plug M2 of the interface circuit board (fig. 2) and in the terminal block (fig. 4).
 Connect the wires of plug M3 on the interface circuit board (fig. 2) in the terminal (fig. 4).
 Remove the link TA-TA (fig. 3) and set the boiler to SUMMER mode.
 Connect the remote control to the terminal block (fig. 4) using a cable with a minimum section of 2 x 0.5 mm² section and max. length of 50 m being careful to observe the +/- polarity.

THE EXTERNAL SENSOR IS OPTIONAL. The connection can be made to either the remote control (fig. 5) or to the terminal block (fig. 3 - dotted line) on the terminals marked SE-SE.

WARNING! The remote control connection cable must pass through a channel which is separate from any system supplied with power. If this is not possible, fit a screened cable.

EXTERNAL SENSOR FLOW TEMPERATURE CORRECTION LAW HOW IN THE RELATION TO THE EXTERNAL TEMPERATURE AND POSITION OF THE USER HEATING TEMP. ADJUSTMENT.



T_m - MAX / MIN = Range of flow temperature selected

T_e = External temperature

T_m = flow temperature



Heat technology since 1959

RADIANT BRUCIATORI s.p.a.

Via Pantanelli, 164/166 - 61025 Loc. Montelabbate (PU)

Tel. +39 0721 9079.1 • fax. +39 0721 9079279

e-mail: tecnico@radiant • Internet: <http://www.radiant.it>

ALL DESCRIPTIONS AND ILLUSTRATIONS CONTAINED IN THIS LEAFLET HAVE BEEN CAREFULLY PREPARED BUT WE RESERVE THE RIGHT TO MAKE CHANGES AND IMPROVEMENTS IN OUR PRODUCTS WHICH MAY AFFECT THE ACCURACY OF THE INFORMATION CONTAINED IN THIS LEAFLET. E + OE ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED, SAVED IN STORAGE SYSTEMS OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WHETHER ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING OR OTHERS, WITHOUT THE MANUFACTURER'S PRIOR AUTHORISATION IN WRITING.

TA01E002.B1103