
SPITFIRE®
BORN TO BURN
USER MANUAL

SPITFIRE®
NEW GENERATION

MILLBERG

SPITFIRE è prodotto da **MILLBERG** srl
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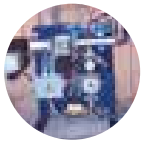
Constantly evolving technology



1994

Ideas in progress

In 1991 Diego Libanore, who worked for M.I.L. snc di Libanore Libero & C. manufactured the first industrial 05 meter linear burner. In1994 he decided to embark on a new industrial adventure and set up Milberg, a company specialized in the manufacture of oven burners.



1998

Manufacture of the first prototype

Millberg manufactured the first burner for pizza oven, a new important range of products for the company's future success.

2002

Ideas turned into reality

Millberg manufactured the first Spitfire new generation burner certified CE DVGW.

2003

Open frontiers

Millberg set up the first sales and after sales SPITFIRE center in Asia. Asia.



2008

The year of electronics

From 2003 to 2007 Milberg consolidated its experience in the field. It manufactured prestigious burners for worldwide leading companies in the industrial, agricultural and food field. In 2008 the first electronic SPITFIRE new generation was manufactured.

SPITFIRE evolved

2010

The models Silver and gold of Spitfire series were manufactured and certified CE DVGW.

The new world

2011

The electronic SPITFIRE burner " in the USA version" was manufactured and first certified UL and CSA for the USA and Canadian market.

New acknowledgements

2013

Further achievements in the USA and Canadian market UL CSA –RU certifications. Further new overseas markets such as Australia, New Zealand Africa and Latin America were conquered.

The world is not enough

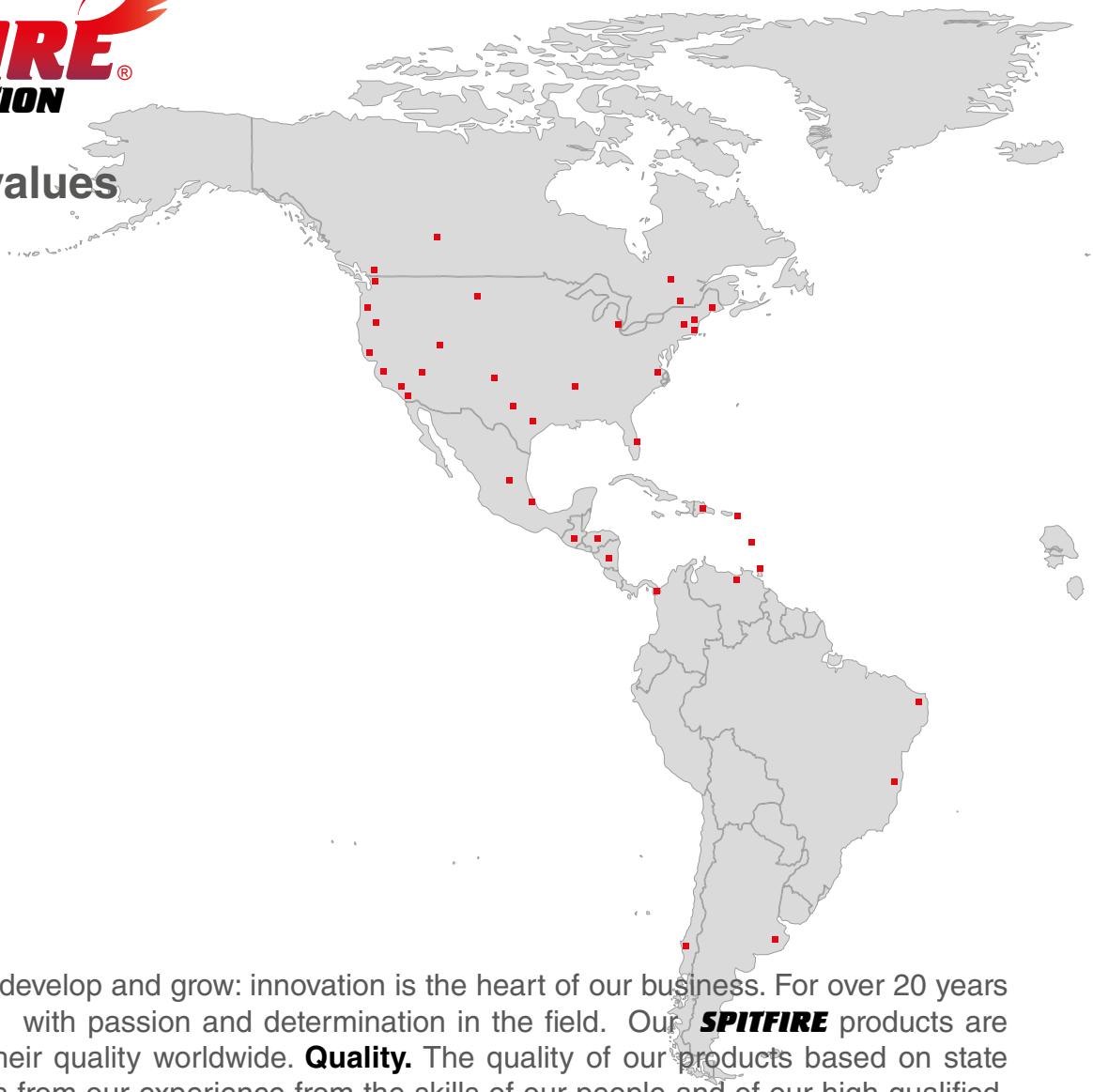
2014

The electronic SPITFIRE evolved into the model SILVER PLUS to meet the needs of a growing market.
Milberg strengthened its presence in the global market , thanks to its participation in several overseas tradeshows.the models SPITFIRE GOLD,SILVER AND SILVER PLUS became well known for their quality.

2015
ready for the future

SPITFIRE®
NEW GENERATION

Charter of values



Innovation Research, develop and grow: innovation is the heart of our business. For over 20 years we have been working with passion and determination in the field. Our ***SPITFIRE*** products are nowadays known for their quality worldwide. **Quality.** The quality of our products based on state of art technology stems from our experience from the skills of our people and of our high-qualified, experienced technicians, capable to interpret the market trends.
Safety. Besides being safe and user friendly, our products undergo several rigorous quality controls and meet the requirements of the most important international certification bodies. **Reliability.** Our products have been chosen by many customers for their high quality performances. The utmost reliability and serenity that only excellence can provide. **Sustainability.** ***SPITFIRE GOLD*** or ***SILVER*** burners completely replace wood as conventional fuel in ovens. Baking quality is higher and operating costs are lower. Our products enable to save Energy and have a very low environmental impact, they exploit natural and eco-friendly resources. We believe it is very important to respect the environment and to return value to the world that surrounds us.



Whenever you choose a ***MILLBERG*** product of the ***SPITFIRE*** series you do not only buy a product but you buy a solution as well.

Millberg products of the ***SPITFIRE*** series are certified,
approved and accredited worldwide.
CE - DVGW - UL - CSA - RU - AGA

Thanks to our constant customer focus, research and innovation our products have been installed in 90 countries.

SPITFIRE
NEW GENERATION

Model identification

TB

03 labels are stuck on the cardboard box:

TB 1: Serial number
TB 2: Warning
TB 3: Type of GAS



All the labels used are made of polystirene for thermal transfer 3M 7810 and certified for the identification of durable goods

TA

03 labels are stuck on the burner:

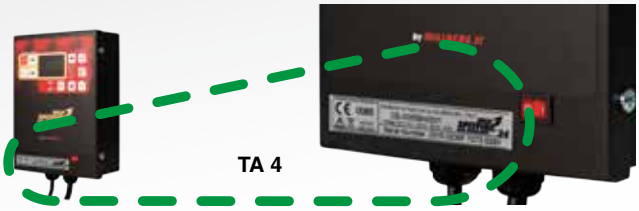
TA 1: Serial number
TA 2: Warning
TA 3: Type of GAS set

01 label is on the control board:

TA 4: Voltage
Serial Number







Silver ◯ ***Silver Plus*** ◯ ***Gold 29*** ◯ ***Gold 34*** ◯

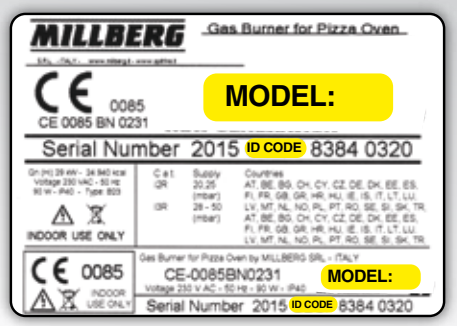
Date	***Serial Number***	***Signature***
		MILLBERG SRL Via Firenze 21 24050 Zanica (BG) Italy Partita Iva 04059020166

MODEL:

- GOLD SPITFIRE NEW GENERATION 34 — **ID CODE:** GDSF
- GOLD SPITFIRE NEW GENERATION 29 — **ID CODE:** GDSF
- SILVER SPITFIRE NEW GENERATION — **ID CODE:** SVSF



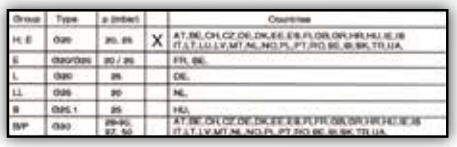
TB



TB 1 - Serial number - Size. 100 x 70 mm

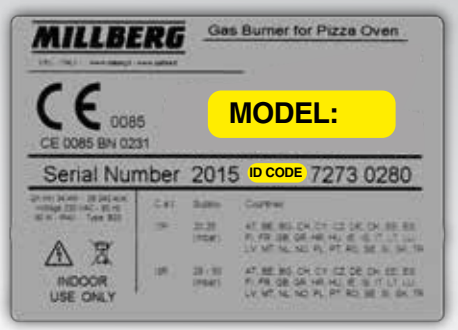


TB 2 - Warning - Dim. 100 x 70 mm



TB 3 - Type of Gas set Size. 100 x 35 mm

TA



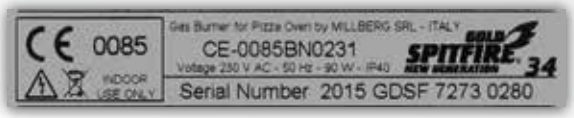
TA 1 - Serial number - Size. 100 x 70 mm



TA 2 - Warning - Dim. 100 x 70 mm

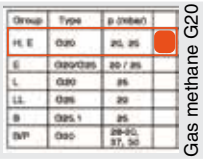


TA 3 - Type of Gas set Size. 100 x 35 mm

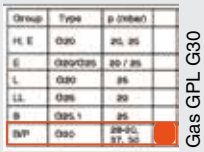


TA 4 - voltage type - Serial Number - Size. 100 x 13 mm

Every ***SPITFIRE*** model can be configured for different types of gas (es. see table).



Gas methane G20



Gas GPL G30

SPITFIRE®
NEW GENERATION

A burner designed to replace wood in pizza ovens has become symbol of membership

Dear customer,
thank you for choosing our ***SPITFIRE*** which is not only a gas burner but a new way conceiving fire heat. Your pizza will be baked in a new environmental friendly way. Thanks for trusting us, your choice is an appreciated acknowledgement to the work we have been doing with passion for over 20 years.
This ***MILLBERG*** burner -model ***SPITFIRE*** has been designed, manufactured in compliance with the strictest manufacturing protocols, to provide high quality performances, a friendly use, and excellent results; you will also be proud to say: I do not have a gas burner I have a ***SPITFIRE*** in my pizzeria!

From wood to gas with ***SPITFIRE*** advantages only



Spitfire New Generation is the innovative gas burner for inner use. It simulates and replaces wood combustion inside the pizza oven. The cooking plate is directly heated at the constant temperature of 400/450/500°C .
Constant heating ensures better productivity without altering the pizza quality your customers are used to.

Spitfire enables to save energy from 20% to 60%when compared to wood, pellet or other gas burners. Emissions are lower, Spitfire does not produce soot and fumes emission is equal to the emissions of the latest generation boiler.

Spitfire New Generation completely replaces wood, the oven is cleaner both inside and below. There is no need for wood piles, no need to clean the flue pipe and no risks of fire.



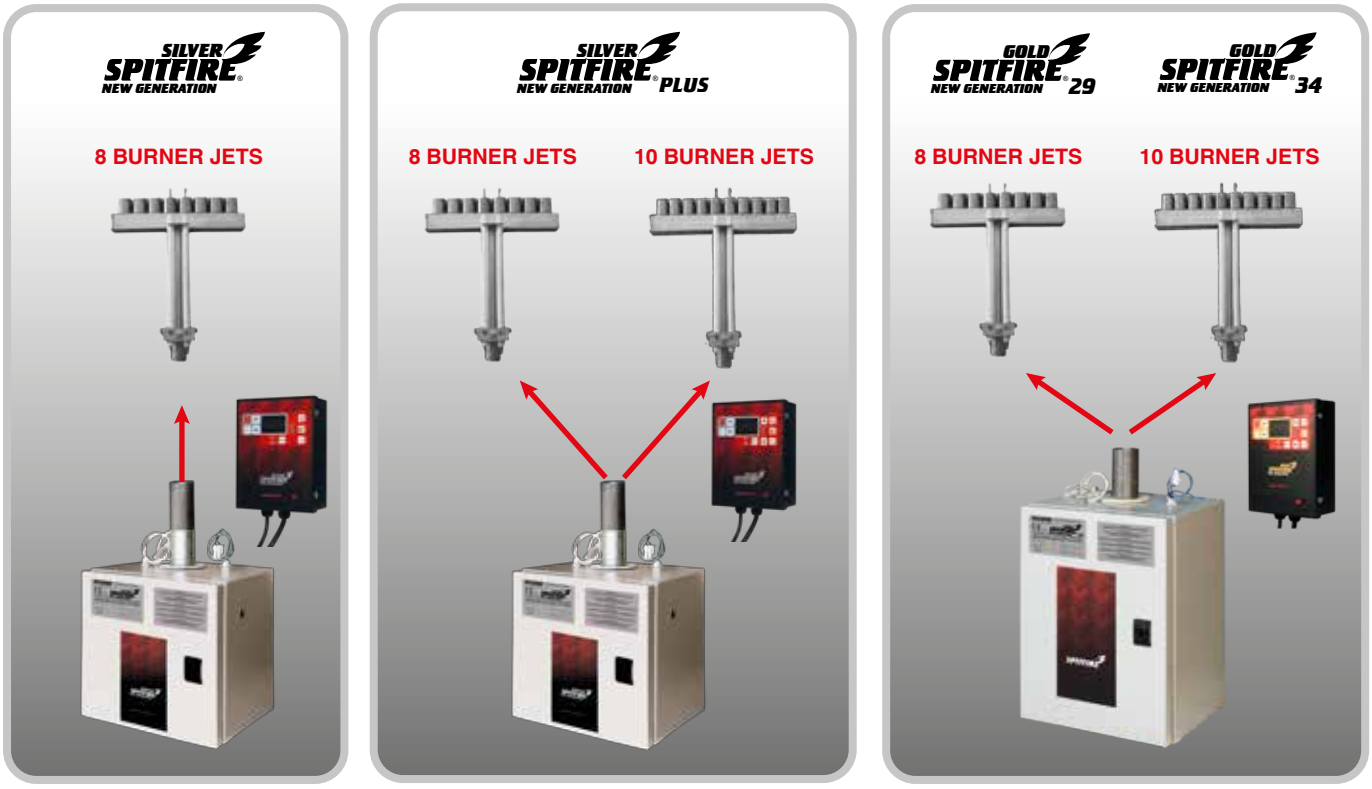


Certificate of Warranty, Testing and Quality

The gas burner ***SPITFIRE*** has undergone controls in compliance with the enforced norms and with the enclosed **DVGW** certificate of conformity.

- ☑ Controls and tests have been carried out to certify that the burner has no faults and works correctly;
- ☑ The gas unit has been controlled, a gas leak test has been carried out;
- ☑ The air unit has been controlled a leak test has been carried out;
- ☑ Verification of compliance of electrical system;
- ☑ The whole system has been tested, the gas leak test has been carried out;
- ☑ The system works correctly.

The manufacturer is not held responsible for damage to people or things arising from tampering, lack and/or poor maintenance, incorrect or wrong repair or installation.



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DOCUMENTS SUPPLIED

MILLBERG gas burner is supplied with:

- Instruction manual provides information on how to install the burner (for the technician), on how the burner works (for the user), the rules to comply with, information on how to carry out routine maintenance and further useful information.
- CE certificate of conformity states that the burner complies with the rules in force.
- ***MILLBERG*** certificate of warranty and testing indicates that all the tests have been carried out by the manufacturer.
- ***MILLBERG*** warranty terms contain the general conditions and validity norms and the FORM ATTESTING THAT THE FIRST IGNITION TOOK PLACE. It must be filled out, signed and sent to ***Millberg***.

GENERAL WARNINGS

- The installation and the start up of ***SPITFIRE*** must be carried out by a qualified technician. (The *qualified technician is the technician that has technical certified skills in the field of burners, hot air heaters, boilers both for industrial and civil use*)
- The customer's must check that the technician installing, starting up and carrying out the test on empty burner is competent and qualified.
- After the first ignition both the customer and the technician must sign the form and send it to ***Millberg***. The warranty starts from that moment on.
- The authorized ***SPITFIRE*** service centers are at the customer's complete disposal for any need he may have.
- The builder is not held responsible for damage arising from the breach of the rules described here below.

WARNINGS FOR THE USERS

- After the first ignition fill out the form ATTESTING THAT THE FIRST IGNITION TOOK PLACE and send or e-mail it to : **commerciale@spitfire.it** WARRANTY STARTS from that moment on.
- Only trusted personnel with the necessary expertise must use the system.
- Avoid impacts or tampering.
- Monitor the system when it is in operation.
- Avoid system standstill in case of electric damage.
- Contact the service centers authorized by the manufacturer for service and request original spare parts for repairs.
- Carry out routine maintenance once a year at least.
- It is advisable to take out a routine maintenance contract.
- In case of faults and malfunctionings of the system turn off the gas valve and shut down the mains installed upstream of the system.
- Do not keep flammable materials near the system **FIRE HAZARD**.

FIELDS OF APPLICATION

MILLBERG gas burner, model ***SPITFIRE*** *New Generation*, has been designed and manufactured to be used inside ovens made of refractory material specifically for pizza, bakery products and catering.
The gas burner ***SPITFIRE*** *New Generation* replaces wood used as fuel in ovens , it provides the same baking quality without polluting the environment. The installation of a gas burner ***SPITFIRE*** *New Generation*, thanks to its reduced emissions prevents quarrels and civil law causes: it is known that the great quantities of wood burnt in an oven for bread and pizza are source of legal disputes among neighbours.

SAFE USE OF THE SYSTEM

- In compliance with the norms in force the installation must only be carried out by a qualified technician.
- The manufacturer is not held responsible for damage to people or things arising from a wrong installation .
- Make sure that the burner is placed in a suitable environment with minimum air ventilation requirements in compliance with the norms in force, and sufficient for a perfect combustion.
- Install a hand operated ,shut off gas valve, easy accessible by the user upstream of the gas oven burner ***SPITFIRE***
- Do not obstruct the ventilation openings of the room where the burner is placed to prevent from overheating and to ensure proper gas burning.
- The burner must be exclusively used for the purposes for which it has been expressively intended.
- Do not touch any hot parts of the system such as burner, electrodes, electric, electronic parts.
- Prior to routine maintenance, switch off the current supply from the main board and turn off the main gas valve.
- When cleaning the area surrounding the burner , do not wet the electrical parts with water or liquid, prevent impacts of any part of the burner with objects that may damage the system.
- Inspect and clean(if necessary) the exhaust fume system and the flue pipe.
- Do not force the burner start up if the system continuously blocks. Have the malfunction checked by a qualified technician.
- Electrical safety is ensured if the system is correctly earthed in accordance with the relevant safety regulations
- To prevent system breakdowns carefully follow the instructions on routine maintenance and make sure that the system has the right ventilation under the oven.
- It is advisable to keep a stock of essential spare and replacement parts.
- Monitor the system when it is in operation.
- In case of faults or malfunctioning turn off the shut off valve and shut off the mains installed upstream of the system
- Do not keep flammable items near the system. **FIRE HAZARD**.
- Contact the service centers authorized by the manufacturer for technical service and always request original spare parts for repairs.
- Carry out routine maintenance once a year at least. It is recommended to take out a maintenance contract.

English

HOW TO USE THE BURNER

- **Burner Ignition**

Make sure that the gas valves are open.
Press the main power switch (red button) at the bottom right of the control board. The green led (2) lights up and signals that the supply voltage is active. Press the red button ⏻ (1)) the digital display (4) shows either the temperature inside the oven if it is over60°C (140 °F) or it temporarily displays the message “LO” (LOW Temperature).
If the red LOCK OUT warning light(13) lights up, press the button Reset (15) when it flashes to reset.
Unless there are errors or alarms the fan starts , the electronic board ***MILLBERG-SPITFIRE*** controls the control unit the safety units, the pre-ventilation time starts and lasts 10 sec.
The central unit emits a discharge on the ignition electrode, and opens the gas electrovalve. It ignites the air/gas mixture that creates the flame on the burner inside the oven. The detection electrode keeps the safety system inserted. The green led (12) lights up. The ignition flame (large flame) lasts for 10 sec. then the flame stabilizes .The following functions can now be used

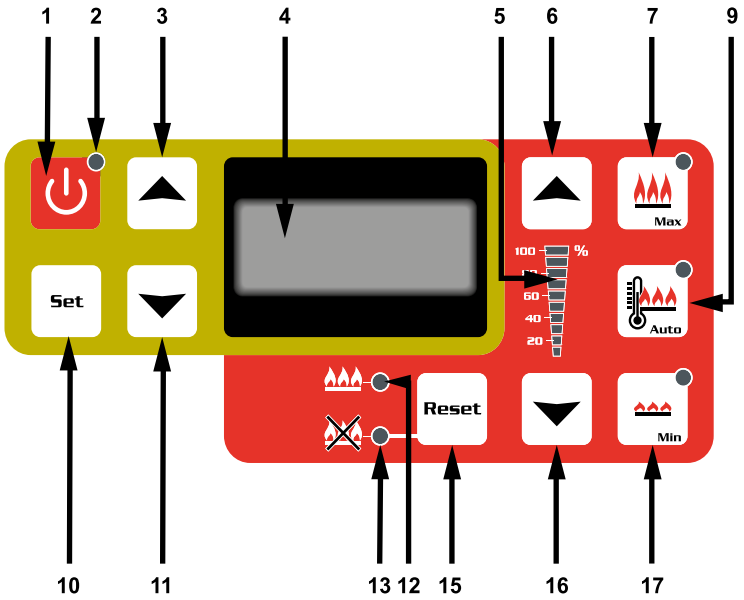
- **How to use the system.**

– **Minimum Flame**
Press the button MIN (9) to set the MINIMUM FLAME.
The ramp of green leds displays 2 leds on that correspond to 20% of the heat ouput.

– **Maximum Flame ONLY for the models SILVER**
Press the button MAX (7) for over 1 sec. to set the MAXIMUM FLAME.
The ramp of green leds (5) displays 10 leds on that correspond to 100% of heat output.
The maximum flame cannot be adjusted by the user.

– **Maximum Flame for the models Gold and SilverPLUS**
Press the key MAX (7) for over 1 sec. to set the MAXIMUM FLAME.
Once ignited, use the buttons ▲ UP(6) and DOWN ▼ (16) to change the heat output from 40% (4 green leds) to 100% (10 green leds) and choose among 07 different flames lengths

– **Timed blaze function**
Press the button MAX (7). for less than a second.
The maximum flame(100%) lasts for 15 seconds (default) the display shows the remaining time(4).
After 15 seconds the flame returns to the previous setting.
The intensity of the flame does not change and the time is only displayed when the burner works at 100%



1	ON – OFF red button = Switch ON / OFF
2	Green led : when flashing = voltage ON Green led : when lighting = burner ON
3	UP SET POINT button / UP Config.
4	Digital Display
5	Led ramp power max flame
6	UP button max flame
7	Max flame button
9	Automatic Temperature Control
10	SET POINT button / SET Config.
11	DOWN SET POINT button / DOWN Config.
12	Green led : burner ON
13	Red led : when lighting = burner OFF Red led : when flashing = ready to RESET
15	RESET button
16	DOWN button max flame
17	Min flame button

- **Temperature automatic control**
  Press the button AUTO (9) for the AUTOMATIC CONTROL of temperature.
  Press the button SET (10) to set the operating temperature(**set-point**). the display (4) shows the temperature followed by a " flashing "P" .Press the buttons UP ▲ (3) or DOWN ▼ (11) to increase or decrease the operating temperature.
  Press the button SET (1) to save the value.

- **Temperature Automatic control function**
  Insert a set –point higher than the temperature displayed.
  In Automatic Control mode the flame is maximum until the set point is reached then it becomes minimum If the temperature goes below 5°C / 9°F, (Hysteresis value) the flames becomes maximum again to keep the oven temperature constant.
  The buttons UP ▲ (6) and DOWN ▼ (16) (only for the models GOLD and SILVER PLUS) enable to choose the maximum flame length to heat the oven or to bake food.

- **Temperature reading**
  Inside the oven there are different temperatures.
  The temperature detected by the thermocouple both when it is placed at the top or at the bottom of the oven is not the actual temperature but the temperature set by the user to obtain the required baking.

- **how to choose the right operating temperature SET-POINT choice**
  Every oven, food, dough, location, flame and user have different baking conditions.
  The temperature and the flame length to bake are the result of personal choices and not standard settings.

- **How to switch the burner off**
  Press the red button ⏻ (1), the leds are off the post ventilation starts and lasts for 10 seconds then the fan stops.
  Press the main power switch button (red button) at the bottom right of the control board to disconnect the electronic board ***MILLBERG-SPITFIRE***.

- **Do not close the mouth of the oven when the flame is on**
  Closing the mouth of the oven , even partially when the burner flame is on is counterproductive.

SUGGESTIONS

Contrary to what may be thought, heating is not faster, only the temperature rises but the oxygenation of the flame and the thermal exchange are reduced, the heating times are longer and consumption is increased due to very poor combustion

- **When the flame is on**

When the burner flame is on it burns the oxygen in the room. Make sure that there are air ventilation openings for the oxygen circulation. If there is a chimney hood or an air conditioning system in the room, even if they are not near make sure that there is the right balance between air and pressure in the room.

If the draught of the chimney pipe is poor fumes remain in the room and are not conveyed to the roof.
It is recommended first to choose a medium set-point to prevent the burner from overheating and as a consequence burning the first baked products. Set a 250°C / 480°F temperature and heat the oven in automatic mode (9). Carry out some baking tests to check that the oven has reached the required temperature. If the oven has not reached the required temperature increase the temperature by 10° C at a time.

In case of a very low set point the temperature reached is very steady. In case of a very high set point, the minimum flame only lasts for a few seconds and the burner quickly reaches the maximum flame.

If the burner does not reach the temperature the set point may be too high or heat may quickly be emitted out of the oven. This is due to an excessive draught or to a very high mouth.

If the minimum flame continues heating the oven, the temperature rises and the oven is not cooled while baking food. In case of very long breaks when the oven is hot turn off the burner, close the mouth of the oven. Turn the oven on when you need to bake again.

In case the minimum flame raises the temperature too much, the set point might be too low or the minimum flame is oversized compared to the size of the oven.

- **Over Temperature**

The function OVER TEMPERATURE is only available with spitfire systems where the software program ***MILLBERG-SPITFIRE*** v.1.7 and further update version have been installed.
In case of a temperature exceeding the set point over 40° C (default) under any working condition the flame extinguishes. The display alternatively shows the temperature reached and the message OVER. When the temperature goes below 10°C SPITFIRE automatically switches on again.
This function works in any working mode when the set point is over 200°C. = 400° F. The OVER TEMPERATURE setting can only be changed by authorized personnel.

- **Failed thermocouple**

In case the thermocouple ER01 is faulty the burner can work in manual mode.

- **How to clean the cooking plate**

AVOID CONTACT with the burner and with the electrode in particular.
DO NOT BRUSH baking remnants towards the ignited flame or towards the switched off burner.
DO NOT USE the hole in the cooking plate or the flame as waste collectors.
If the electrodes, the burner and the system under the oven are dirty the system may be damaged or the flame may be extinguished . Over time the combustion residues may also cause fire.
Very important: keep the area below the oven clean and free from bulky objects.

- **When the flame is off**

When the flame of the burner is off the mouth of the oven can be closed to keep heat inside the oven. Shut off the electrical mains and turn off the gas valves.

- **Electric black out**

Press the main power switch (red button) at the bottom right of the control board to remove tension from the electronic board ***MILLBERG-SPITFIRE***. Black outs or sudden electrical failures may damage the system the electronic and mechanical protection the system is equipped with may not be sufficient.

Arrange an uninterruptible power supply to power the ***SPITFIRE*** system for a few minutes in case of sudden power mains interruptions or black outs.

In some cases it is also recommended to install a **Voltage Stabilizer**..

MILLBERG supplies these units as options. (see the spare part list in the manual section Annexes).
(item cod. GRC 1000 Uninterruptible Power Supply 240-230V.)
(item cod. STAB FE230 Voltage stabilizer Fe Sat 230V.)

MESSAGES ON DISPLAY

- **The display shows“ER01”**

1. Thermocouple broken or not connected. Replace .
2. Reconnection when the burner is on entails a 03 minute electronic stop.
3. Disconnect and restart after 03 minutes

- **The display shows “ER02”**

1. Fan stopped. Disconnect the power supply for 2 minutes then connect again.
2. Fan broken. Contact the after sales service center.

- **The display shows “ER05” and the buzzer periodically sounds.**

1. Electronic fault. Contact the after sales service center.

- **The display shows “ER07” the buzzer periodically sounds.**

1. System blocked. Contact the after sales service center.

- **The display shows “ALL1” the buzzer periodically sounds.**

1. Dirty fan. Carry out routine maintenance.
2. Fan overheated. Contact the after sales service center.

- **The display shows “ALL3” and the buzzer periodically sounds.**

1. Malfunctioning of the system. Contact the after sales service center.

- **The display shows “LO” (LOW Temperature).**

1. The temperature detected by the probe is > 60 °C. o >140 °F.
2. If the burner works and the oven is hot,reverse the polarity of the thermocouple.

- **The display shows display “HI” (HIGH Temperature).**

1. The temperature detected by the probe is < 705°C. o <1300°F.
2. The burner has reached the temperature limit set by the manufacturer.

- **The display shows “OVER” (OVER Temperature).**

1. The temperature detected is over the set-point by 40°C. or 100°F.
2. The burner has reached the threshold of the temperature limit set by the manufacturer.
3. The burner stops until the temperature returns to within the operation range (safety parameters).

TROUBLESHOOTING

Make sure that the following does not occur before considering a system malfunctioning:

- no sudden black out or short circuit occurred when the system was in operation.
- the burner parts and the electrodes are not damaged.
- the display does not show alarm or error messages.
- *RTQ Make sure that the gas pressure has not changed.*
- the gas detection valves are open.

Carry out the following steps when you switch on or you work with the burner ***SPITFIRE New Generation***, do not carry out the steps *RTQ (Reserved to qualified technicians).*

- **The system display does not show the temperature.**

1. Check that the display does not show ER01 “TERMOCOUPLE DISCONNECTED” or other messages.
2. Check that the power supply is correct.
3. Check that the detection electrode is not faulty or broken.
4. Check that the electric connectors under the system board are connected.
5. Check that the electric cables are not disconnected or broken.
6. Check that the electronic board ***MILLBERG-SPITFIRE*** is not faulty.

- **The display shows the temperature but the fan does not blow air**

1. Check that the detection electrode is at the right distance and cleaned.
2. Check that the silicon cables are connected to the electrodes.
3. Check that the detection and switch on electrodes are not damaged otherwise replace them.
4. Check that the **HONEYWELL** unit is not faulty.

THE DISPLAY SHOWS THE TEMPERATURE ,THE FAN BLOWS AIR BUT:

- **<u>there is no</u> ignition discharge and the burner DOES NOT STOP.**

1. Check that the electrodes and the silicon cables are at the right distance and cleaned.
2. Check that the detection and switch on electrodes are not damaged otherwise replace them.
3. Check that the **HONEYWELL** unit is not faulty.

- **<u>there is no</u> ignition discharge and the burner STOPS.**

1. Check that the electrodes and the silicon cables are at the right distance and cleaned.
2. Check that the switch on electrode is not damaged. Replace.
3. Check that the **HONEYWELL** unit is not faulty.

- **<u>there is</u> the ignition discharge the flame does not ignite and the system STOPS.**

1. Check that all the gas valves are open.
2. Check that gas is emitted from the burner to the oven.
3. Check that the **HONEYWELL** unit is not faulty
4. RTQ Check the gas pressure. Increase the gas pressure or decrease the air ratio.
5. RTQ Check that the fan and the venturi group are cleaned.
6. RTQ check that the gas electrovalve is not faulty.

- **<u>there is</u> the ignition discharge the flame ignites the burner STOPS**

1. Check that the detection electrodes and the silicon cables are at the right distance and cleaned.
2. Check that othe detection electrode is not faulty. Replace.
3. Check that the **HONEYWELL** unit is not faulty.

- **the minimum flame ignites but it does not reach the maximum.**

1. Check that the maximum or automatic flame has been selected.
2. Check that the temperature regulator is set at a higher temperature than the temperature displayed.
3. RTQ Check that the gas filters, the fan and the venturi group are cleaned.

- **the minimum flame ignites but when it becomes maximum it fades.**

1. RTQ Make sure that the burner inlet pipe is correctly dimensioned
2. RTQ Check that the gas flow adjustment screws have not been touched.
3. RTQ Check that the filters , the fan and the venturi group are clean

- **the maximum flame is very blue, tight and noisy**

1. RTQ Check the gas pressure, increase the gas pressure or decrease the air ratio.
2. RTQ Check that the filters, the fan and the venturi group are clean.



Maximum flame very tight

-
- **the maximum flame is very yellow and dirties the dome of the oven.**

1. RTQ Check the gas pressure, decrease the gas pressure or increase the air ratio.
2. RTQ Check that the filters , the fan and the venturi group are clean.



Maximum flame very yellow

- **minimum and maximum flame are correct.**



Minimum flame correct



Maximum flame correct

English

WARRANTY CONDITIONS

The Burner System must be in possession of the original Buyer; if it's sold after the first ignition, this warranty is not valid.
The first ignition certificate must be sent to **MILLBERG** within 15 days from test date.
Whenever the Customers ask for the intervention of **MILLBERG** Technicians, they must exhibit the warranty certificate to the **MILLBERG** personnel.

- **Warranty and liability**

MILLBERG warrants all its products for 12 months following the date of the initial test.
Electric components, glass parts and paints are not included in the present warranty.

- **During the warranty period**

MILLBERG undertakes to repair or replace those parts with construction or material defects after a careful evaluation of said pieces.
If warranty terms are not respected, the cost of disassembling and assembling of the repaired or new components shall be at customer's expense; the same goes for material delivery and **MILLBERG** personnel trips.
The buyer must take care that any necessary interventions by **MILLBERG** personnel take place in the best working and operational conditions that will allow the technicians to proceed with the necessary operations. If it's not possible to carry out the work at the appointed time for reasons that are not attributable to **MILLBERG**, the buyer will be charged with all related intervention expenses incurred as described in the previous paragraph.
If the Buyer wants to get the spare part in replacement of the faulty pieces without waiting for a control by **MILLBERG** trusted personnel, he can have it by making payment in advance. **MILLBERG** reserves the right to evaluate the repayment.
The parts to be repaired or replaced must be sent to **MILLBERG** at buyer's expense and risk.
Spare parts will be supplied to the buyer free if the warranty terms are respected, otherwise they will be sent COD (cash on delivery).
The defective parts that are returned or replaced remain the property of **MILLBERG**.
MILLBERG doesn't acknowledge the refund of those reparation or intervention expenses carried out by the customer directly, without an authorization by **MILLBERG**.
MILLBERG cannot be held liable for any damages, directly or indirectly incurred that are caused to persons or objects because of burner failures or due to the forced suspension of its use.

- **Lapsing or invalidation of the warranty**

The warranty can invalidate or lapse under specific conditions such as:
The buyer doesn't respect the payment conditions stated in the purchase order.
The buyer doesn't fill out or doesn't send back the Form for Burner Test.
The installation doesn't respect the regulations in force and the Installation instructions contained in the Manual.
The electric connections are not carried out in compliance with the indications of the schematics enclosed in the manual. The electric and hydraulic plants are not in compliance with the regulations in force and with the indications contained in the instructions manual.
Flue inefficiency and negative conditions causing problems in smoke exhaust.
Improper use of the burner compared to those described in the instructions manual or different use from those for which it was intended.
Functioning overload of the burner or unfavorable surrounding conditions the burner is working in.
Use of fuels not mentioned in the instructions manual or polluted by foreign substances.
Damages caused by external factors such dampness, impact, short circuit, failures and breakings that occurred during transportation.
Tampering or improper repairs caused by non-authorized personnel or due to the improper installation of components.
The Ordinary Maintenance Operations, such as fan, electrodes and burner cleaning, are not included in the present warranty; the same goes in case for skilled Technicians' Intervention for ordinary or extraordinary maintenance operations.
This is the only valid warranty for **MILLBERG**; nobody can change these terms and conditions, or issue any other written or verbal warranties.

CE 0085

DVGW CERT

EU-Baumusterprüfbescheinigung

EU type examination certificate

CE-0085BN0231
Produkt-Identnummer
product identification no.

Anwendungsbereich ***field of application***	EU-Gasgeräteverordnung (EU/2016/426) *EU Gas Appliances Regulation (EU/2016/426)*
Zertifikatinhaber ***owner of certificate***	MILLBERG S.r.l. Via Fiume, 21, I-24050 Zanica (BG)
Vertreiber ***distributor***	MILLBERG S.r.l. Via Fiume, 21, I-24050 Zanica (BG)
Produktart ***product category***	Brenner für Heizkessel: Gasgebläsebrenner (3502)
Produktbezeichnung ***product description***	Automatisches, zweistufiges Brennersystem zum Einbau in Pizza-Backöfen
Modell ***model***	SPITFIRE; SPITFIRE SILVER; SPITFIRE GOLD...
Bestimmungsländer ***countries of destination***	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR
Prüfberichte ***test reports***	Baumusterprüfung: 705CL1800133 vom 04.03.2019 (FGL)
Prüfgrundlagen ***test basis***	EU/2016/426 A III B (09.03.2016) DIN EN 676 (01.11.2008)- in Anlehnung
Ablaufdatum / AZ ***date of expiry / file no.***	23.04.2029 / 18-0118-GEA

70328-04-A-DE

23.04.2019 Rie A-1/2
Datum, Bearbeiter, Blatt, Leiter der Zertifizierungsstelle
date, issued by, sheet, head of certification body

DVGW CERT GmbH ist von der DAkkS nach DIN EN ISO/IEC 17065:2013 akkreditierte und von der Deutschen Bundesregierung benannte Stelle für die Zertifizierung von Gasgeräten gemäß EU-Verordnung EU/2016/426.

DVGW CERT GmbH is an accredited body by DAkkS according to DIN EN ISO/IEC 17065:2013 and notified by the government of the Federal Republic of Germany for certification of gas appliances under EU Regulation

DAkkS
Deutsche Akkreditierungsstelle
D-ZE-16028-01-01

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info@dvgw-cert.com

Elektrische Daten 230 V AC, 50 Hz
electrical data

Gerätekategorien *appliance categories*	**Versorgungsdrücke** *supply pressures*	**Bestimmungsländer** *countries of destination*	**Bemerkungen** *remarks*
I2E(R)	20/25 mbar	BE	
I2ELs	20,13 mbar	PL	nicht für Spitfire
I2R	20-25 mbar	CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, NL, NO, PT, RO, SE, SI, SK	
I3+	28-30/37 mbar	BE	
I3B/P	28-30 mbar	CY, MT	
I3R	28-50 mbar	CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, NL, NO, PT, RO, SE, SI, SK	
II2E3+	20, 28-30/37 mbar	LU	
II2E3B/P	20, 37 mbar	PL	
II2EK3B/P	20/25, 30 mbar	NL	
II2ELL3B/P	20, 50 mbar	DE	
II2Er3+	20/25, 28-30/37 mbar	FR	
II2H3+	20, 28-30/37 mbar	ES, GB, GR, IE, IS, IT, PT, SK	
II2H3B/P	20, 28-30 mbar	CZ, DK, EE, FI, LT, LV, NO, RO, SE, SI, TR	
II2H3B/P	20, 50 mbar	AT, CH	

Typ *type*	**Technische Daten** *technical data*	**Bemerkungen** *remarks*
SPITFIRE	Wärmebelastung (Hi): 7,0...34,8 kW	
SPITFIRE SILVER	Wärmebelastung (Hi): 8,0...25,0 ; 24,0 (G25.1) kW	
SPITFIRE GOLD 29	Wärmebelastung (Hi): 8,0...29,0; 28,0 (G25.1); 27,0 (G110/G150.1); 31,0 (G120) kW	
SPITFIRE GOLD 34	Wärmebelastung (Hi): 8,0...34,0; 32,0 (G25.1); 27,0 (G110/G150.1); 31,0 (G120) kW	

Verwendungshinweise / Bemerkungen
hints of utilization / remarks

Zusätzlich geprüfte Bestimmungsländer, Gerätekategorien und Anschlussdrücke:
AT, BE, BG, CH, CY, HR, HU, IS, LT, LV, MT, PL, TR): I2R (20-25 mbar)
AT, BE, BG, CH, HR, HU, IS, LT, LV, MT, PL, TR: I3R (28-50 mbar)
DK, IT, SE: I1a (8 mbar), nicht für Spitfire
SE: I1b (8 mbar), nicht für Spitfire
SE: I1c (8 mbar), nicht für Spitfire

Local Agent / Distributor:



MILLBERG

SPITFIRE produced by **MILLBERG** srl
Bergamo - Italy

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