



GROUPE SEFMAT

RIPAGREEN®

MANUAL OF USE THERMAL LANCE

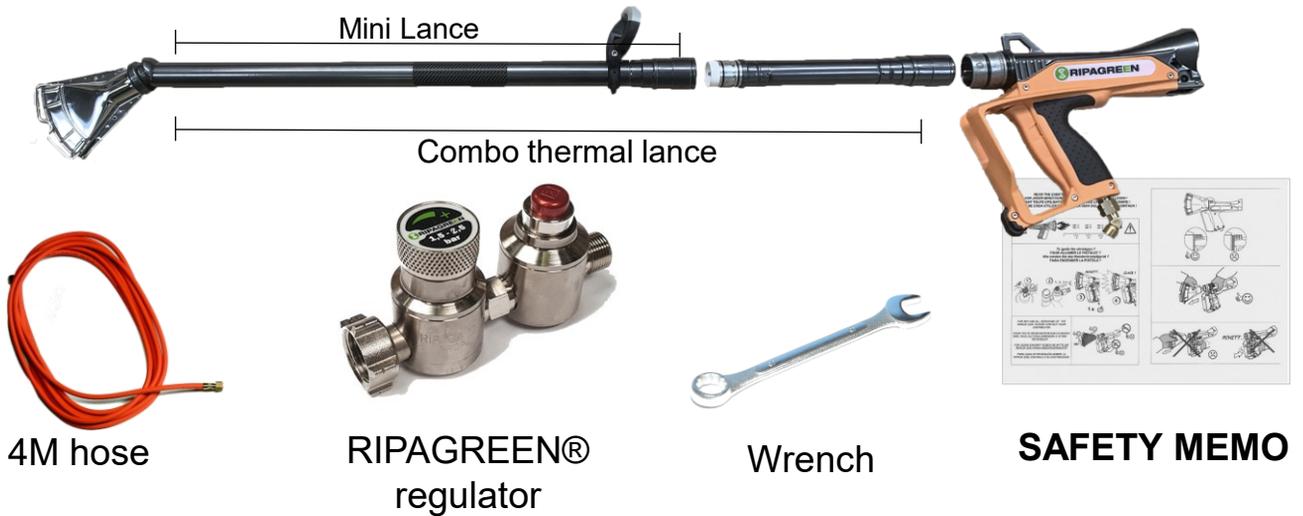


MADE IN FRANCE

**TUTO - VIDEO
RIPAGREEN.COM**



BOX CONTENTS



WARNING MUST READ BEFORE ANY FIRST COMMISSIONING

RISKS



Do not use this device in regulated areas with specific fire or explosion hazards.



Do not treat surfaces of dry grass or dead leaves to avoid any risk of fire.



Clean the area to be treated of any flammable object. Avoid all treatments near highly flammable softwoods

INSTRUCTIONS



Delimit a work area such that the nose of the thermal lance is always at least more than 1.5 m inside this area and prohibit access to this area to any other person



Prevent, report and control the area to be treated before starting to work.
Monitor the treated area at least 1 hour after application.



Do not work near grasses or dry leaves. Beware in windy weather of flame drift and flaming volatile objects. Do not treat inaccessible areas (door, garage, basement, etc.)

Check the nature of the supports when working close to the bottom of a wall, cladding, inaccessible grid. If you are not the owner or do not know of the places to be treated, ask the competent person about the nature of the supports and the exposure to risks. Define a route avoiding places at risk of fire.

EQUIPMENT



Have an appropriately sized fire extinguisher or water-filled sprayer on hand



Wear heat resistant gloves when using the device.



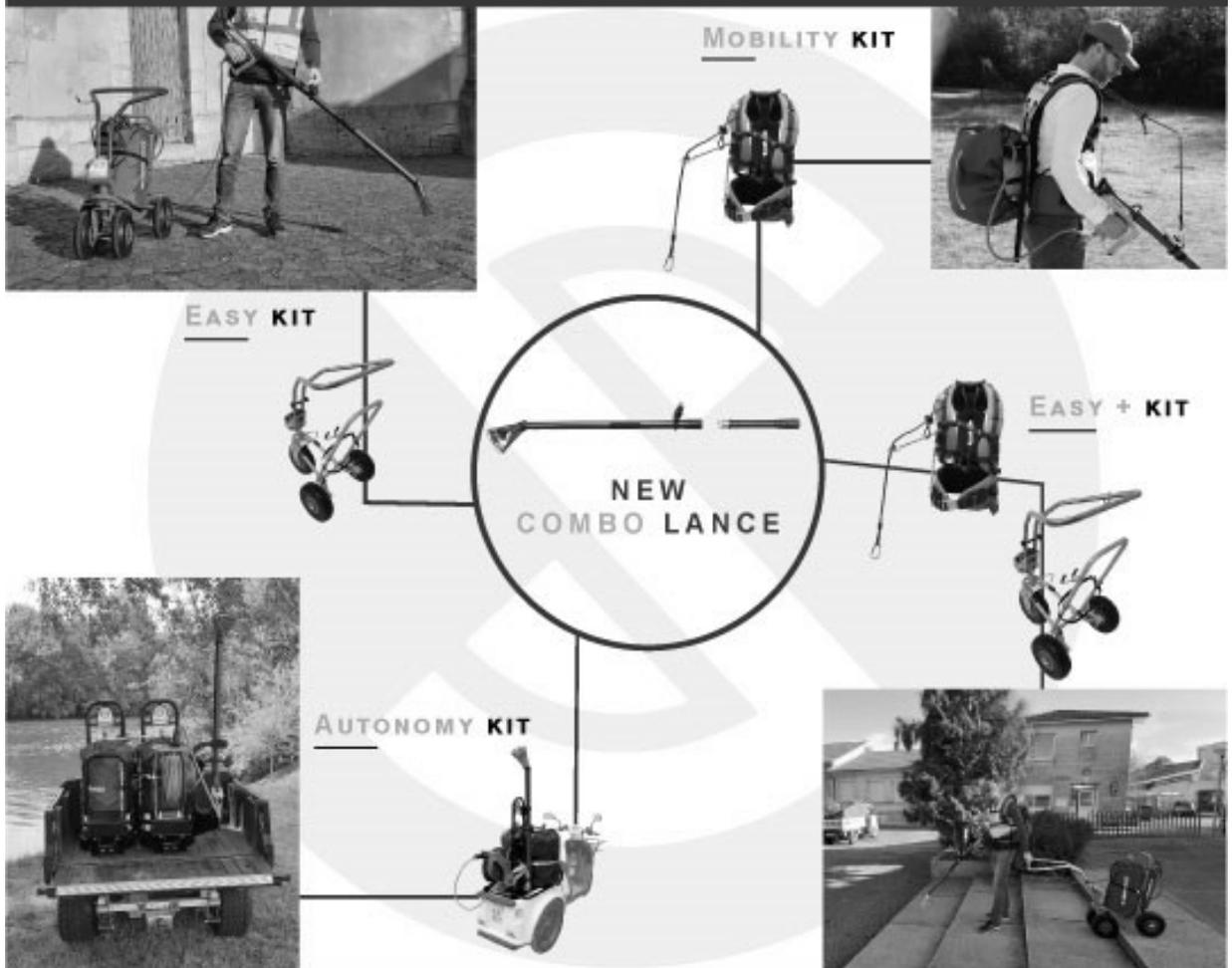
Prohibit the wearing of easily flammable clothing such as nylon or similar

SUMMARY

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INNOVATIVE HIGH VELOCITY HEATING SYSTEM FOR ALL YOUR APPLICATIONS

 **RIPAGREEN®**



EASY KIT

MOBILITY KIT

EASY + KIT

AUTONOMY KIT

NEW COMBO LANCE

A THERMAL COMBO LANCE IN 2 PARTS, ADAPTED IN 1 CLICK TO ANY FIELD

WARNINGS

This device is intended for weed control by thermal shock of weeds in the context of exclusive professional use.

It is imperative that users of the RIPAGREEN® weeder read this user manual in its entirety and be trained in the applications requiring the use of this device.

This user manual should be kept for future reference.

Cut off the gas supply if you move out of sight of your RIPAGREEN or your food.

Press the trigger to empty the gas supply pipe so that it does not remain under pressure.

Maintain surveillance of the treated area for a time determined by the user depending on the conditions of use.

This appliance, like all gas appliances, consumes air and produces combustion gases containing both CO² and CO. Exposure to the latter gas is fatal in high concentrations.

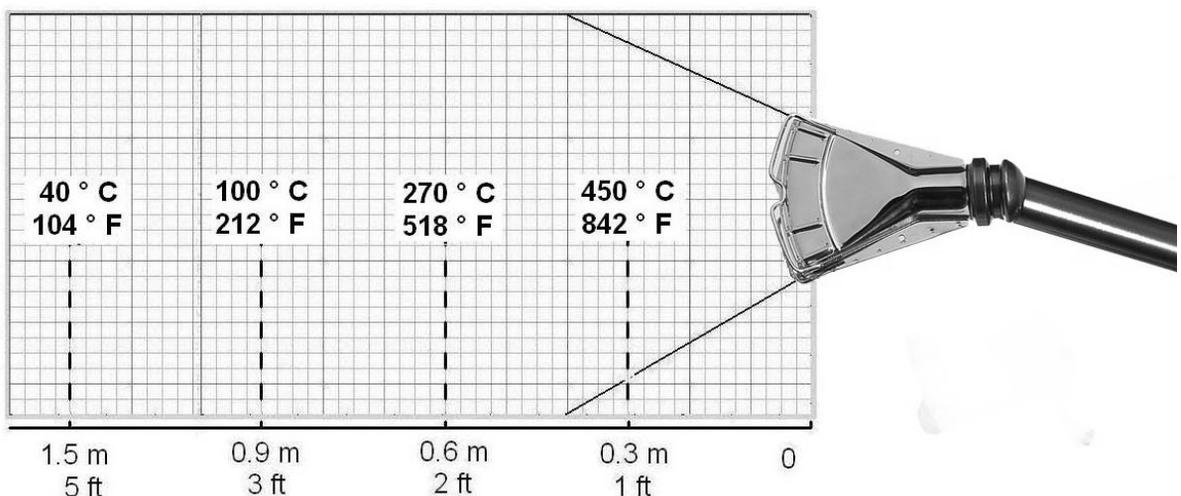
Never work indoors.

Before use, follow the guidelines for the use of gases.

In operation, this appliance produces a flame. This short flame is sometimes not visible outdoors. Do not direct it towards yourself, other people or living beings, uncontrolled or visible supports, or on the gas cylinder and the pipe.

The appliance in operation presents a danger zone in front of the combustion nozzle up to a distance of 1.5 meters (5 ft).

The attention of operators is drawn to the fact that in this dangerous zone there is a risk of burns for living beings and of deterioration and/or ignition for property.



Always consult your RIPAGREEN distributor for any maintenance or replacement of parts.

WARNINGS

Before using your Ripagreen after a period of storage and/or non-use, carefully check the thermal lance and the trolley in order to detect any gas leaks, clogging of the combustion nozzle or cuts in the pipe. For the procedures to follow, please refer to the "FAILURE DIAGNOSIS" chapters or watch the QR code videos below.



Be sure to **comply with the ADR** regulations in force concerning the transport of industrial gas cylinders in vehicles.

For the transport of your gas cylinders, be sure to:

- Close the taps, even if the bottles are empty.
- Dismantle equipment for transport.
- Stow your bottles securely.
- Do not let your bottles stay in your vehicle.
- Use an appropriate vehicle (ventilated, with separation)

- The RIPAGREEN works with propane on the principle of high-speed induced atmospheric air burners.
- Ignition is done by a piezoelectric igniter whose action is simultaneous with the opening of the gas controlled by the trigger, a single control device.
- The RIPAGREEN is a safe thermal lance that has several safety features.
- Its original and patented design ensures combustion with limited heating of its heat diffuser (cold nozzle). For weeding uses, the reflection of heat from the ground nevertheless leads to a limited rise in temperature.
- A RIPAGREEN double safety regulator system cuts off the gas supply in the event of the hose breaking or tearing. This valve also controls the pressure in the hose to avoid working in too low pressures that could damage your lance. **Never work with the red button locked.**
- A hold-to-run device (known as a "dead man") cuts off the gas supply automatically when the trigger is released. This allows an immediate stop of the heating. This hold-to-run device must not be blocked in the open position by any means whatsoever.
- A guard in front of the trigger prevents any accidental start-up

TECHNICAL INFORMATIONS

Device running on **PROPANE GAS**

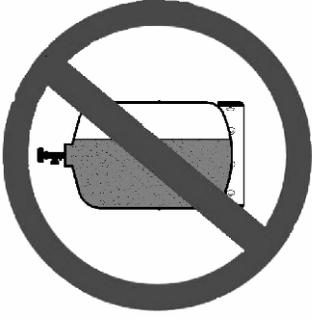
Technical Specifications Thermal Lance

| | SI system | | |
|--------------------------------|----------------------|----|--------------|
| pressure (bar) | 1.5 | to | 2.5 |
| power (kW) | 45 | to | 62 |
| consumption (kg/h) | 3.06 | to | 4.1 |
| air intake (m ³ /h) | 39 | to | 65 |
| noise level | <85 dbA | | |
| length | 1.6 m | | |
| weight | 2 kgs (without hose) | | |
| energy source | propane | | |
| | | | |
| | Imperial system | | |
| pressure (PSI) | 21 | to | 36 |
| power (btu/h) | 153000 | to | 259323 |
| consumption (lbs/h) | 6.7 | to | 9 |
| air intake | 1377 cu.ft/h | to | 2295 cu.ft/h |
| noise level | <85 dbA | | |
| length | 63 inches | | |
| weight | 4.4 lb | | |
| energy source | propane | | |

START UP

Prior to commissioning, it is necessary to have read and observed the information contained in the “WARNINGS” chapter.

It is mandatory to use with this device the hose and the RIPAGREEN regulator delivered **ORIGINALLY**.

| FORBIDDEN WITH RIPAGREEN | |
|--|---|
|  |  |
| PROPANE GAS IN LIQUID PHASE (e.g. forklift truck fuel) | CYLINDER LYING ON ITS SIDE |

The RIPAGREEN works with **PROPANE** gas in the gaseous phase contained in cylinders of different capacities.

For its operation as a kit with trolley, we recommend 13 kg cylinders



RIPAGREEN® can also work with bottles from 5kg to 35 kg

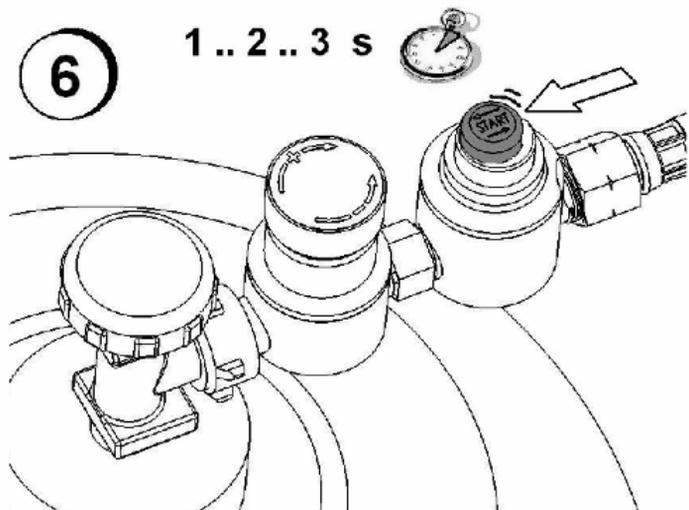
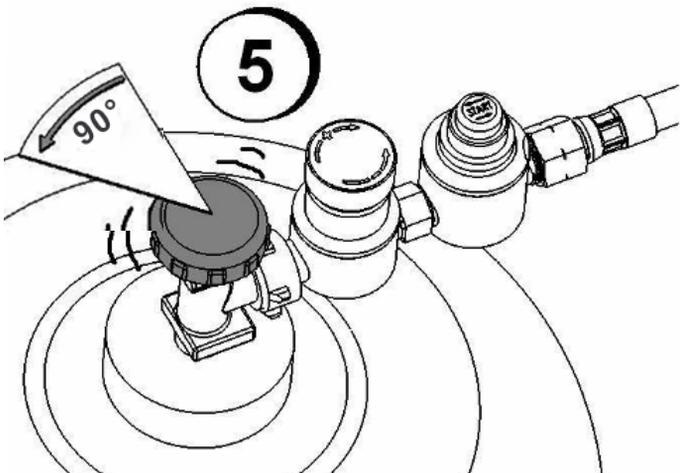
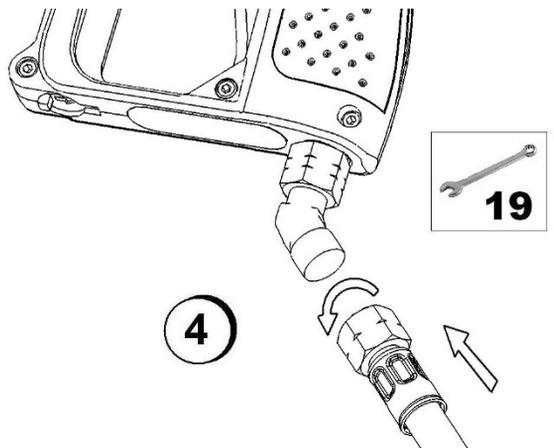
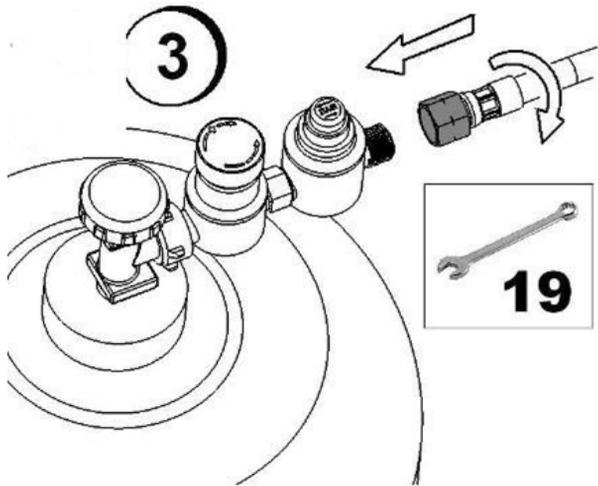
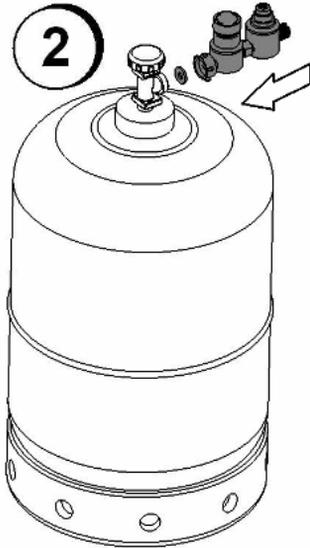
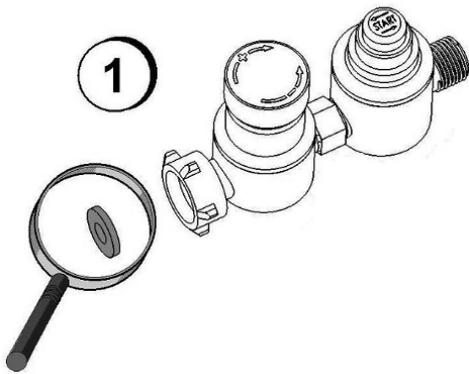


Always plug and unplug cylinders away from flames and ignition points.

START UP

Before connecting the **RIPAGREEN** regulator to the gas cylinder, ensure that the seal is in place for systems using this principle. Make sure the connection area is clean.

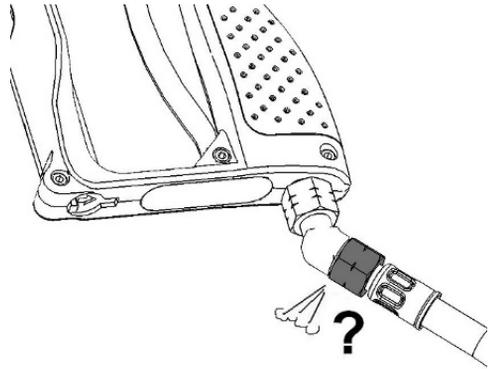
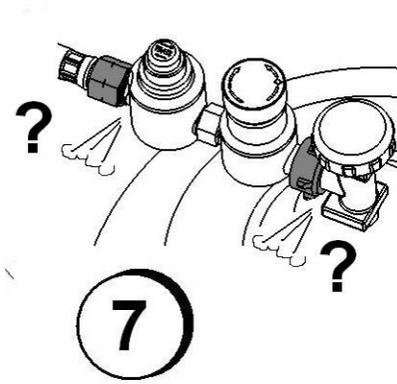
DO NOT OPEN THE BOTTLE TO THE MAX. Only at 90°



START UP

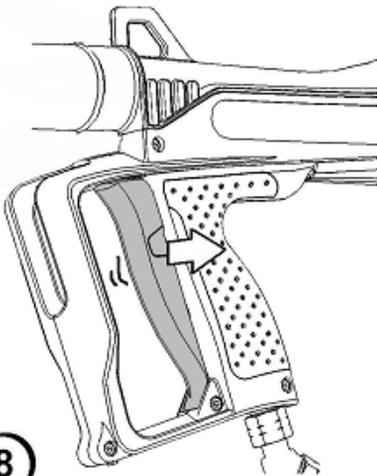
LEAK TEST:

Use a bubble bomb or soapy water to check that there are no leaks on the screwed parts (bottle, hose and gun connections).

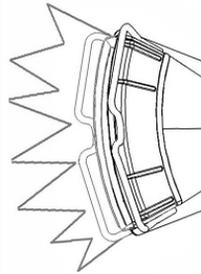


TWO-STAGE IGNITION

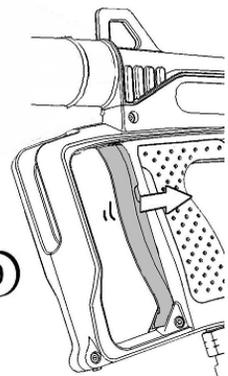
PCHITT...



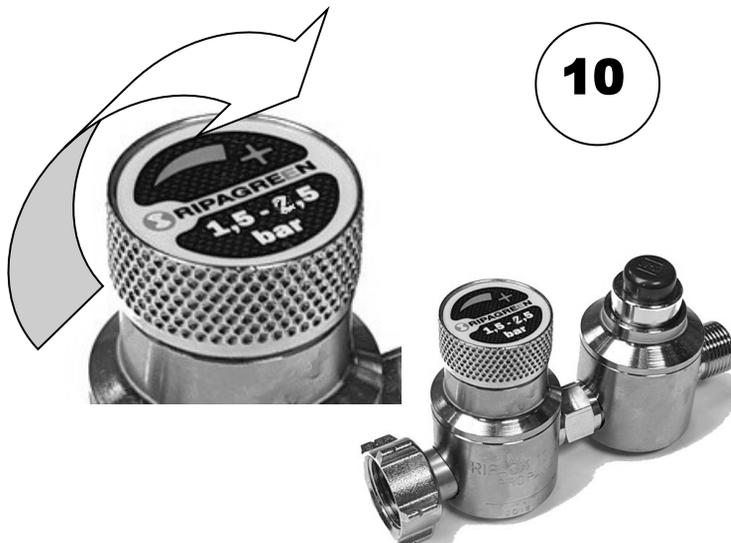
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CLACK !



POWER ADJUSTMENT



START UP

HANDLING RIPAGREEN AND THE PRINCIPLES OF THERMAL WEEDING

The Ripagreen distribution network **provides start up demo** allowing you to understand the security elements and optimize the performance of your Ripagreen device.

We recommend if the start up demo has not yet taken place, to contact your Ripagreen distributor.

The optimal use of Ripagreen allows you to work quickly, effortlessly and with limited gas consumption. This start up demo is also a prerequisite for the proper monitoring of your equipment under warranty.

We remain at your disposal and invite you to visit the Ripagreen site to view the tutorials allowing you to get started.

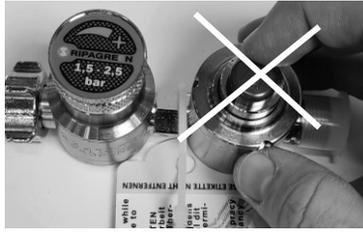
<https://www.ripagreen.com/en/tutorials/>

**Scan this QR code with your smartphone
to go directly to the tutorials page**



SECURITY

NEVER WORK WHILE HOLDING THE RED BUTTON



The RIPARGEEN regulator automatically cuts off the gas supply when the pressure delivered by it drops below the minimum threshold necessary for normal work performance.

This indicates either:

- that the bottle is practically empty (there are only a few minutes left use at very low power: change the bottle)
- a drop in bottle temperature after intensive use (icing). In this case, temporarily change the cylinder or wait for a return to normal pressure, particularly when working outdoors (0°C / 30°F and below).



NEVER HEAT A GAS BOTTLE WITH A FLAME.

AT THE END OF WORK, ALWAYS CLOSE THE GAS BOTTLE TAP AND EMPTY THE SUPPLY HOSE BY SQUEEZING THE HANDLE

DAILY BEFORE STARTING WORK:

1. Check the condition of the hose along its entire length and at the fittings.

We recommend replacing it in the following cases:

- When the visual examination has revealed cuts, even superficial ones.
- Every 3 years for heavy use
- No later than every 5 years after commissioning

Note: The date on the hose is the date of manufacture.

Use only a replacement hose supplied by RIPAGREEN with its original crimped fittings!

2. Check that the gas supply has been cut off by releasing the trigger

See: no gas cut off on "FAILURE DIAGNOSIS" page

GUARANTEE

Your RIPAGREEN device has undergone numerous tests and checks during manufacture.

Each component meets demanding specifications that guarantee performance and adaptability.

For all maintenance and replacement of parts, the RIPAGREEN network guarantees the supply of spare parts that comply with RIPAGREEN specifications, a guarantee of quality and safety.

RIPAGREEN WARRANTY for one year under the following conditions:

- ✓ that the device has been used in accordance with the instructions for use;
- ✓ that it has not undergone any dismantling other than that provided for in the instructions
- ✓ that the geometry of the device is intact (example: no deformation of the body of the device, protective wires and nozzles of the diffuser, no deformation of the threads, etc...).
- ✓ that the original serial number label is present

The warranty does not apply to the wearing parts below:

- Piezo Igniter / Thermal Lance
- High pressure hose / Thermal lance
- Wheels / Trolley
- Elastic strap holding bottle / Trolley

Warranty of the aluminum body: 5 years (under the warranty conditions above).

Any replacement part must be original RIPAGREEN. The manufacturer declines all liability and any claim for recourse in the event of non-compliance with the preceding instructions and provisions.

The company SEFMAT, manufacturer of RIPAGREEN, cannot be held responsible for accidents caused to persons and property by improper use or use not specifically provided for in the instructions. In case of dispute, the courts of Bordeaux-France will have sole jurisdiction. No other place of jurisdiction is accepted.

The use or resale of RIPAGREEN implies full acceptance of the above conditions.

IN THE EVENT OF A WARRANTY CLAIM, PLEASE ENCLOSE THE DUPLICATE INVOICE FROM YOUR SUPPLIER.

FAILURE DIAGNOSIS

NO GAS AT THE THERMAL LANCE OUTLET

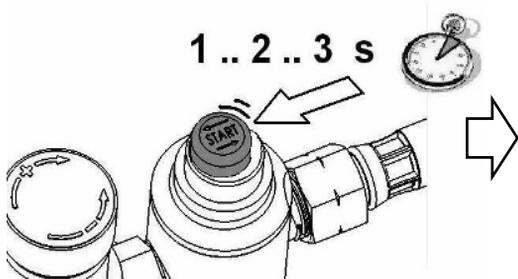
1. BOTTLE VALVE CLOSED OR FLOW RATE TOO HIGH

- close the bottle
- Purge the gas circuit
- Open to bottle at **maximum 90°**



2. REGULATOR IMPOSSIBLE TO PRIME

Note: The red button cuts off the gas supply below a pressure that is too low for the gun to work properly



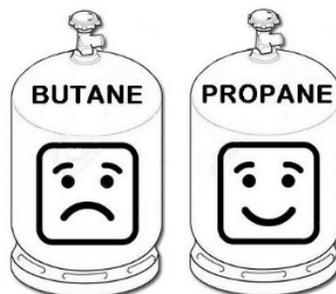
BOTTLE EMPTY OR NEARLY

CHANGE THE BOTTLE



CONTINUOUS USE CAUSES CYLINDER TO FROST

PROVIDE A REPLACEMENT BOTTLE



THE REGULATOR ONLY WORKS WITH PROPANE GAS

BUTANE PRESSURE IS TOO LOW

FAILURE DIAGNOSIS

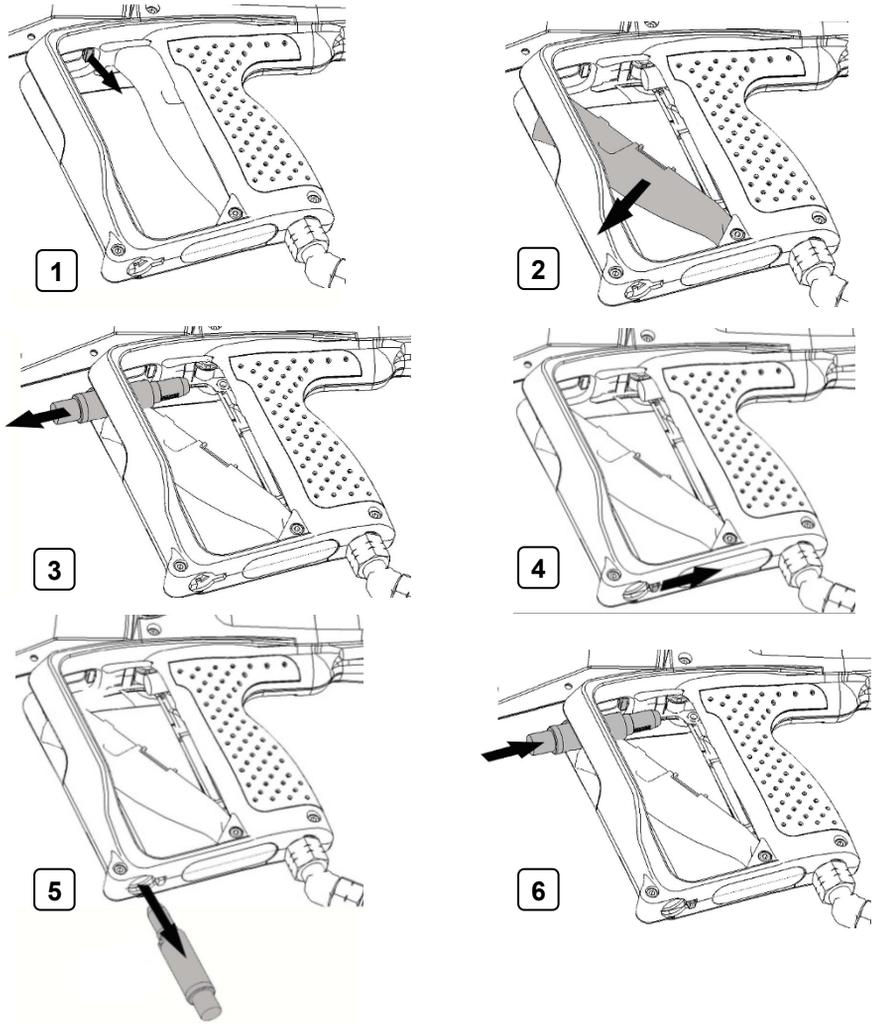
HEAT LANCE IGNITION DIFFICULTIES

1. CHANGE THE PIEZO

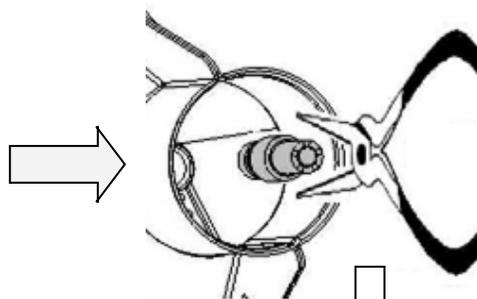
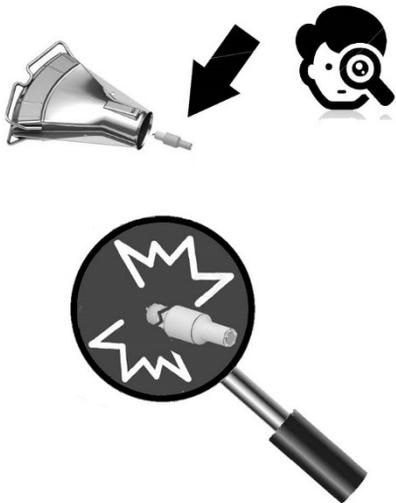


The piezo loses its electrical properties with each solicitation

Ref: 131003RG

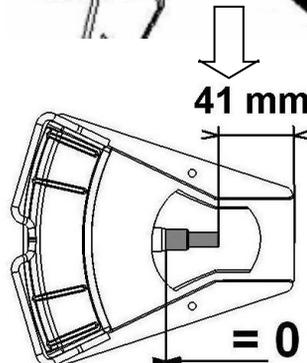


2. REPLACE THE SPARK PLUG



Remove the spark plug using flat pliers

Check whether the ceramic is cracked or blackened



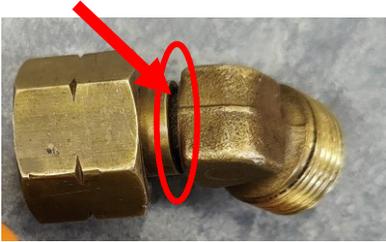
Be careful to clip the spark plug into its housing (it must not fall out)

OK

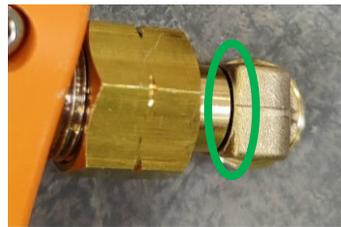
FAILURE DIAGNOSIS

3. CHECK THE CONDITION AND CLEAN THE SWIVEL JOINT

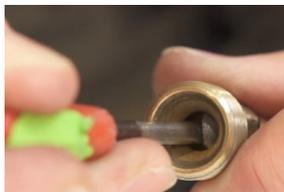
THE GAS FLOW IS ABNORMALLY REDUCED
SHORT AND WEAK FLAME / IGNITION IS DIFFICULT



Friction / Gauge



Impurity



Scratch the grid
with a needle

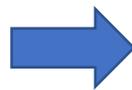


4. CHECK THE CONDITION OF THE HOSE



5. CLEAN THE NOZZLE

Clean the grid



Clean the accommodation well
of the spark plug that generates
mainly ignition
flame

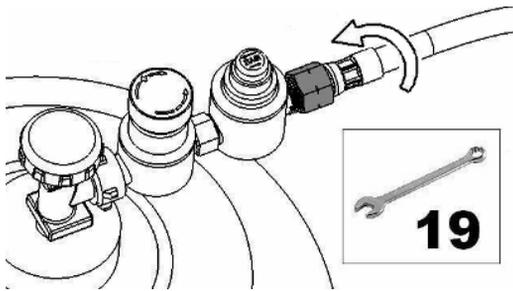
We recommend the use of a
compressed air gun



Tutorial RIPAGREEN

FAILURE DIAGNOSIS

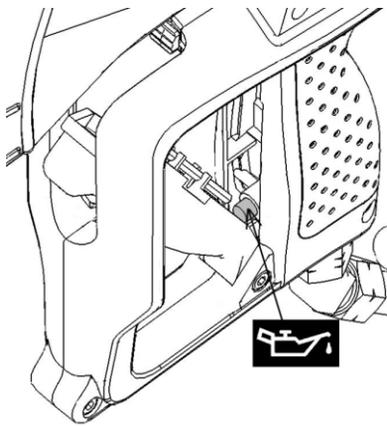
CHECKING THE RIPAGREEN DENTENDER



EVERY 500 HOURS OR QUARTERLY at a minimum, check the proper operation of the hose rupture safety device (integrated in the regulator) by performing the following:

1. Go outside, away from any ignition sources, sparks and burning objects.
2. Pressurize the device; with the wrench provided, unblock the pipe union nut and unscrew it completely: the gas should be cut off.

NO GAS CUT AFTER RELEASING TRIGGER



By releasing the trigger the combustion nozzle should go out instantly.

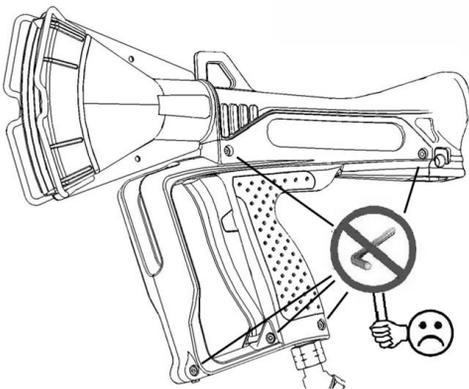
Otherwise :

Open the trigger

Grease the faucet tap polluted with dust (do not use penetrating oil). In the event of repetitive blockage, have the tap changed by your authorized RIPAGREEN dealer.

PARTS

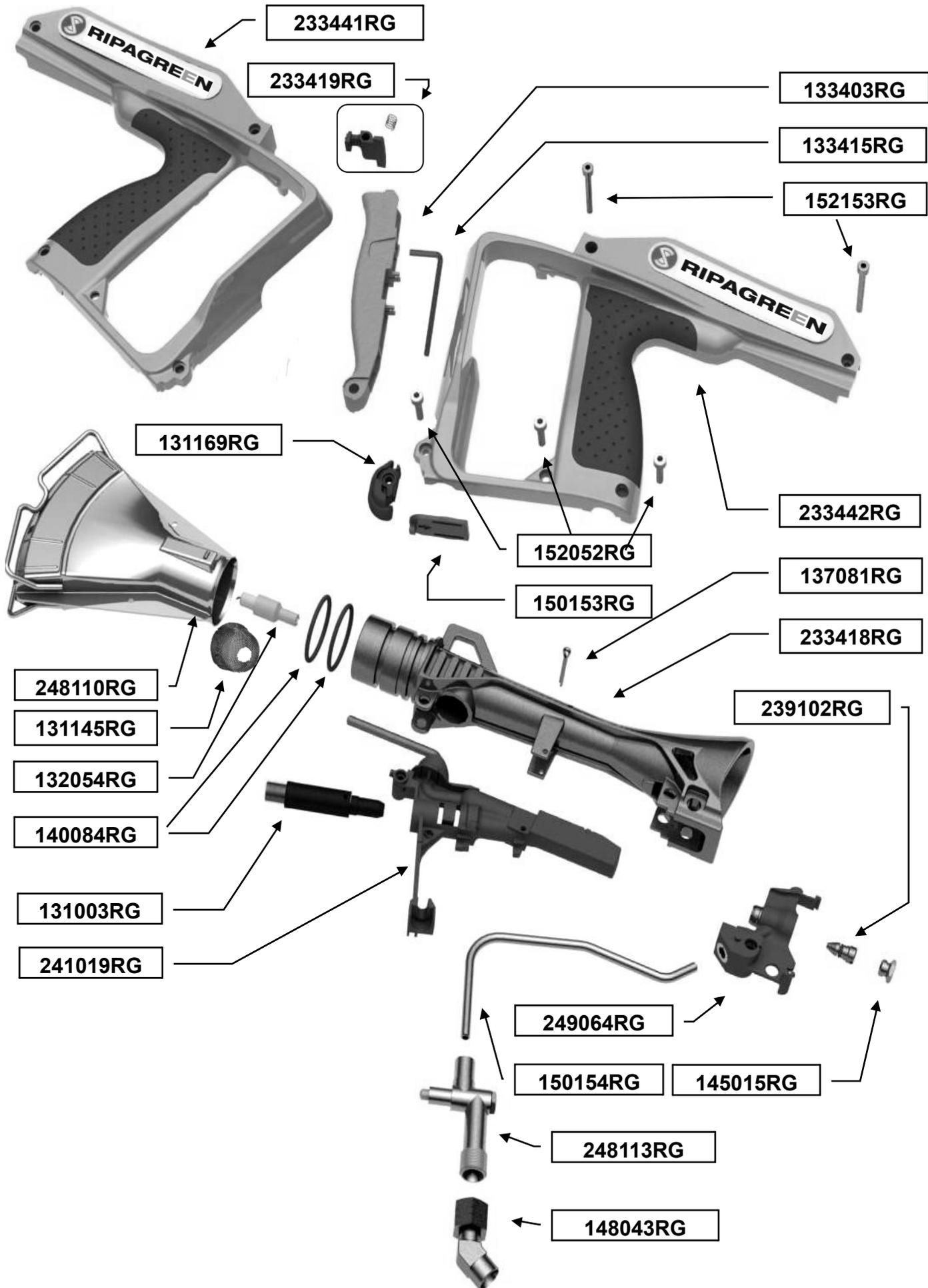
ASK YOUR DEALER FOR ANY INTERVENTION REQUIRING DISASSEMBLY OF THE RIPAGREEN



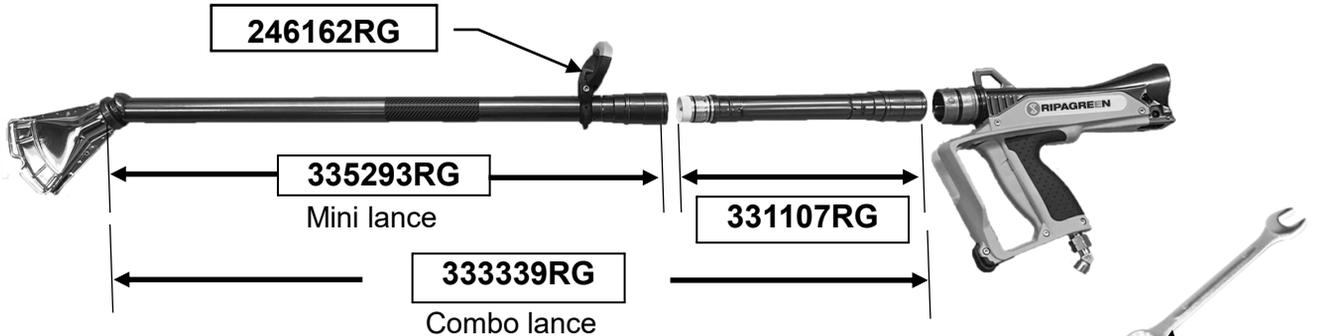
The only authorized operations are described in the previous chapter "FAILURE DIAGNOSIS"

THE COMPANY SEFMAT (MANUFACTURER BRAND RIPAGREEN) DECLINES ANY RESPONSIBILITY IN THE EVENT OF DISASSEMBLY OF THE THERMAL LANCE BY A PERSON NOT QUALIFIED TO PERFORM MAINTENANCE OPERATIONS.

EXPLODED VIEW



EXPLODED VIEW



133132RG



140060RG



140084RG



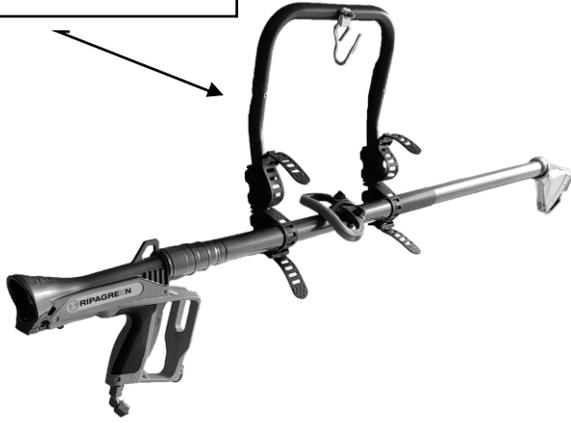
250132RG



OPTION :
Hose length 8 m
(Standard length delivered 4m)
Reference : 250023RG



**Accessory
LANCE HOLDER
149087**



Consult your local
Ripagreen reseller



SPARE PARTS LIST

| Code art. | Description |
|-----------|---|
| 131003RG | Piezo igniter for thermal lance |
| 131138RG | Textile logoed sleeve for straight extension tube of Combo lance (Velcro fasteners) |
| 131145RG | Non-return safety filter |
| 131169RG | Rubber shock absorber |
| 132054RG | Spark plug |
| 133132RG | Wrench 19/30 for DIN connections |
| 133403RG | Trigger |
| 133415RG | Allen wrench 3 |
| 137084RG | Ground pin (inside of gun body) |
| 137081RG | Molykote Grease (50 gr) |
| 140010RG | Flat seal for DIN gas pressure regulator |
| 140060RG | Nozzle O'ring - ins. Ø 28.24 x Ø 2.62 (for lance plastic nozzle) |
| 140084RG | Nozzle O'ring - ins. Ø 34.82 x Ø 3.53 (for gun body nozzle) |
| 145015RG | Jet cover with o'ring |
| 148043RG | Swivel connector with mesh filter |
| 150153RG | Sliding trapdoor of reserve igniter |
| 150154RG | Aluminium Gas Tube |
| 152052RG | Screw CHc M4x16 |
| 152153RG | Screw CHc M4x35 |
| 233418RG | Body aluminium with DIN O'rings (dark grey) |
| 233419RG | Pawl & Spring / Trigger lock |
| 233441RG | 1/2 right handle + Ripagreen sticker |
| 233442RG | 1/2 left handle + Ripagreen sticker |
| 239102RG | Propane jet DIN |
| 241019RG | Electrical Connection Kit / body gun (without igniter piezo) |
| 248110RG | Stainless steel nozzle - Heat diffuser + Filter (Spark plug not included) |
| 248113RG | Gas tap DIN |
| 249064RG | Jet bearer complete (incl. Bearer + jet + o'ring + cover) |
| 250132RG | Reinforced rubber hose, 4 meters with 3/8L connections (int. Ø 6 mm) DIN |
| 250023RG | Reinforced rubber hose, 8 meters with 3/8L connections (int. Ø 6 mm) DIN |
| 246162RG | Swing plastic handle for Mini or Combo thermal lance |
| 335293RG | Reinforced rubber hose, 1 meter with 3/8L connections (int. Ø 6 mm) DIN |
| 331107RG | Straight tube 30 cm for Combo lance (elec. wire, seals and textile sleeve) |
| 333339RG | Tubes 33 & 90 cm for Combo lance (elec. wire, seals, handle and textile sleeve) |
| 335293RG | Tube 90 cm for Mini or Combo lance (elec. wire, seals, handle and textile sleeve) |



**DÉCLARATION DE CONFORMITÉ CE
EC- DECLARATION OF CONFORMITY
CE - KONFORMITÄTSEKTLÄRUNG**

Le fabricant soussigné :
The manufacturer undersigned :
Der unterzeichnete Hersteller :

SEFMAT S.A.S, 7 RUE DE BETNOMS, 33185 LE HAILLAN, FRANCE

Déclare que l'appareil :
Hereby declares that the appliance :
Erklärt hiermit, dass das Gerät :

**Lance thermique Ripagreen
Thermal lance Ripagreen
Thermolanze Ripagreen**

déstiné à la production d'une flamme produite par la combustion de gaz
designed to produce a flame produced by the combustion of gas
zue Erzeugung einer durch Verbrennung von Gas erzeugten Flamme bestimmt ist,

est conforme aux dispositions du Règlement (UE) 2016/426 du 9 mars 2016 concernant les appareils brûlant des combustibles gazeux.
is in accordance with the Regulation (EU) 2016/426 of 9 March 2016 on appliances burning gaseous fuels.
den Anforderungen der Verordnung (EU) 2016/426 vom 9. März 2016 über Geräte zur Verbrennung gasförmiger Brennstoffe entspricht.

Cette conformité est confirmée par le laboratoire DVGW CERT sous le numéro DG-2418BR0325.
This conformity is confirmed by the DVGW CERT laboratory under number DG-2418BR0325.
Diese Konformität ist vom DVGW-CERT-Labor unter der Nummer DG-2418BR0325 bestätigt.

Fait au Haillan, le 1er septembre 2016
Le Haillan, September 1st, 2016
Le Haillan, 1. September 2016

Le Président
President
Vorstandsvorsitzender

CERTIFICATIONS INTERNATIONALES
WORLD CERTIFICATIONS

