GROUPE SEFMAT

RIPACK®

USER MANUAL

RIPAFLAM

PROTECTION

BY EXCELLENCE

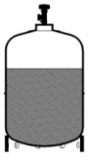
REGISTER YOUR PRODUCT ONLINE

https://ripack.com/en/register-a-product

SUMMARY

WARNINGS

MUST READ BEFORE ANY FIRST COMMISSIONING

	Do not use this device in restricted areas with specific fire or explosion hazards.
	Do not use the appliance to shrink the plastic film on a floor made of combustible material (wood, plastic, etc...).
	Delimitate a work area such that the nose of the gun is always at least 1.5 m (5 feet) inside this area and prohibit the access to any other person.
	Check the fittings for leaks and inspect the hose for cracks or loose connections.
	Have an appropriately sized fire extinguisher on hand.
	Prohibit the wearing of easily flammable clothing such as nylon or similar.
	Wear heat resistant gloves during use.
	Maintain close monitoring for at least 2 hours after retraction.
	Check the correct adaptation of the regulator according to the gas standard in force in your country. **PROPANE gas in gas phase only. No forklift gas.**

WARNINGS

RIPAFLAM is a product that can be used for heating, drying or deburring applications for parts for exclusive professional use.

Its integration into the production chain must be in accordance with the instructions in this manual.

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

This instruction manual should be kept for future reference.

Do not use the device on materials, substances, products and liquids which can ignite spontaneously, packaged in bulk or individual, and in the storage areas of these same products or in premises where it is expressly forbidden to smoke for security reasons.

Do not use the device in an environment containing combustible materials (wood, plastic, etc.).

Do not operate the unit unattended. Cut off the gas supply if you move out of sight of your Ripaflam or your power supply.

Be sure to keep the area of use clean and free of all debris (wood, paper, other flammable materials).

For all work inside professional premises, the gas tank must be placed on a trolley and easily maneuverable.

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. Be sure to provide adequate ventilation according to the time of use of the device (see “Technical Specifications” - Table A).

For intermittent use of 15 minutes per hour at maximum power, we recommend a non-specific pollution room with a minimum volume of 16 m3 with an air change of 48 m3/h.

Never work underground.

Before use, follow the instructions for the use of PROPANE or NATURAL gases.

In operation, this appliance produces a flame. Do not point it at yourself, other people or living beings, at the gas bottle and hose, or at combustible materials.

WARNINGS

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

The attention of operators is drawn to the fact that in this dangerous zone, risks of burns are possible for living beings and of deterioration and/or ignition of property.

In use, the burner must always be in motion so that the material used does not exceed the maximum temperature provided by its supplier.

This temperature depends on the distance of use, the duration of exposure and the setting of the power of the device.

This device, intended for heating, drying or deburring parts, can also be used for other applications whose products support heat input by an apparent flame, under the exclusive responsibility of the user. In all cases, it is mandatory to refer to the instructions of the manufacturer of the treated product and to national, federal or local legislation on the use of appliances with exposed flame.

Isolate Ripaflam from any flammable product.

Each element that makes up Ripaflam must have a well-defined place in your industrial installation, electrical cables and hoses must follow separate paths, insulated in thermal sheaths and must not be stressed in torsion, compression or traction.

When installing Ripaflam, take care to keep electrical cables and gas hoses away from the heating area.

For the safe use of the device, it is mandatory to comply with the above warnings as well as the guidelines provided by the manufacturer of the materials treated. The distances of use, the duration of exposure and the setting of the device, in relation to the different materials treated, depend on the instructions of the manufacturer of the said materials.

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

As a reminder, the hose supplied with your gun is a wear part which is not covered by the warranty. In order to ensure its proper functioning, make sure that it is stored in the right way, and that it does not drag on the ground when using your Ripaflam.

TECHNICAL DATA

	SI SYSTEM	
Energy source	Propane	Natural Gas
Pressure (bar)	1.5 to 3,5	0.5 to 3
Power (kW)	45 to 80	50 to 55
Fuel consumption (kg/h)	2.9 to 5.2	4
Air Intake (m3/h)	39 to 70	-
CO emissions vol %	0.0052 to 0.0021	-
CO2 emissions vol %	2.81 to 4	-
Noise level	< 85 dbA	
Lenght	37.5 cm	
Weight	1250 g	
Operating voltage	230 V (+/- 10%) 110 V with **transformer**	
Working temperature	253 to 333 K (-20 to 60°C)	
	ANGLO SAXON SYTEM	
Energy source	Propane	Natural Gas
Pressure (PSI)	21 to 50	7 to 44
Power output (btu/h)	153 000 to 272 000	170 000 to 188 000
Fuel Consumption (lbs/h)	6.75 to 11.9	8.8
Intake air	1340 ft3/h to 2400 ft3/h	-
CO emissions vol %	0.0052 to 0.0021	-
CO2 emissions vol %	2.81 to 4	-
Sound level	< 85 dbA	
Lenght	15 inches	
Weight	2.7 lb	
Operating voltage	230 V (+/– 10%) 110 V with **transformer**	
Working temperature	-4 to 140 °F	

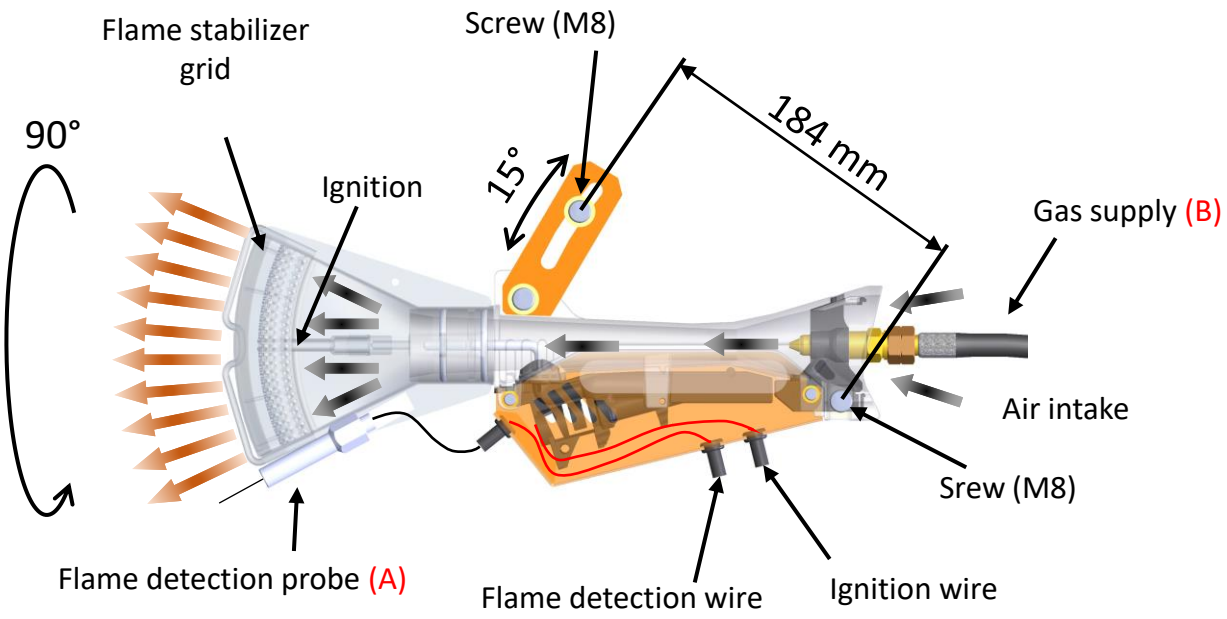


Figure 1 : Burner

The burner (C) must be installed using the 2 M8 fixing screws. Two adjustments are possible, orientation of the assembly by 15° and rotation of the combustion nozzle by 90° (figure 1).

The Ripaflam is delivered ready to be put into service.

The flame is generated by the control box(D). When energized, it causes an ignition by spark pulses for several seconds. Associated with this ignition, the gas flow valve (E) opens and sends gas into the gun body through the gas supply (B).

The power of the flame is adjustqble by actuating the regulator (see description in "bottle connection").

The Ripaflam is equipped with a flame detector (A) which sends information to the control box. When installing, **please do not twist or bend the flame detector**. If there is no ignition, the control box automatically closes the gas flow valves.

Electrical outlet not provided.

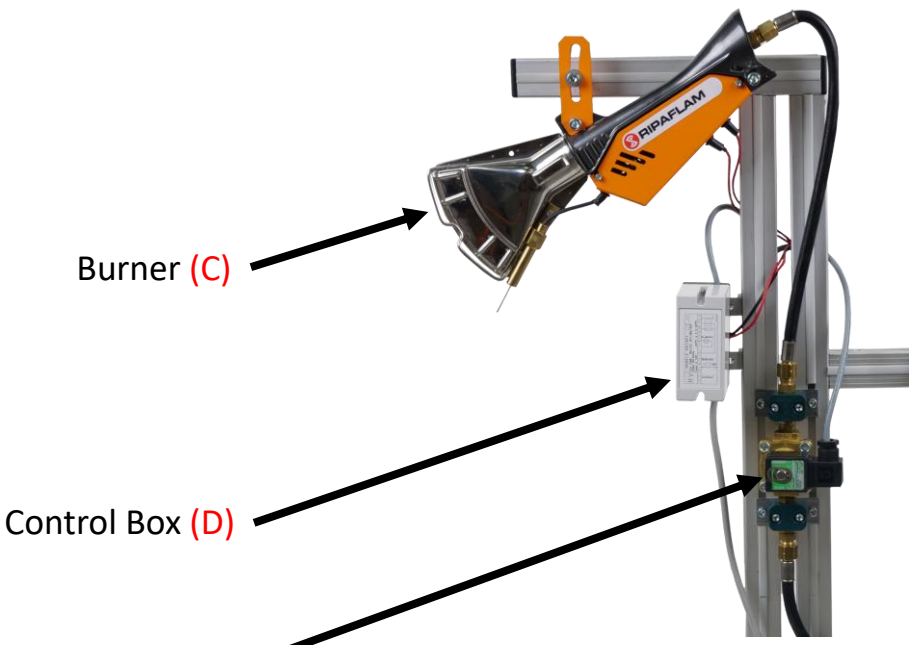


Figure 2 : Ripaflam overview

CONTROL BOX INFORMATION

Supply Voltage:	230 Vac
Supply Frequency:	50/60 Hz
Phase Relationship:	Phase sensitive (Neutral/Earth relationship required)
Internal Fuse:	2AF HBC
Power Consumption:	<25W (electronics only)
Protection degree:	IP40
Ambient temperature range:	-10° to +60°C
Mounting position:	Not critical
Inputs:	
Lockout reset:	230 Vac 50/60 Hz
Loads specified as 230Vac (cosφ >=0.6):	
Lockout Indicator:	Max. 0.5A @ 230 Vac 50/60 Hz
Gas Valve 1:	Max. 1A @ 230 Vac 50/60 Hz
Gas Valve 2:	Max. 1A @ 230 Vac 50 Hz
Total maximum continuous load:	2A
Lockout Type:	Volatile
Lockout reset response time:	1.5s
Lockout reset switch:	Momentary action normally open connecting to N
Wait time (Tw):	12s
Ignition time (Ti):	6s
Safety time 1 (Ts):	6s
Pilot proving time (Tps):	0s
Safety time 2 (Ts2):	0s
Interpurge time :	12s
Ignition attempts:	1
Ignition behaviour:	Immediate Run (Ign stops immediately upon flame detection)
Spark Voltage	>15kV @ 30pF load
Spark frequency	25.00Hz
Spark gap	2.5 - 4.5mm
Maximum length of HT leads:	1 metre (Resistive suppression 1K @ HT end of lead recommended)
Flame sensor type:	Flame ionisation rectification
Electrode configuration:	Single, Dual, Triple
Flame sensitivity:	On = 1.5µA, Off = 1.0µA
Flame detector response time:	Flame on = 1s max, Flame off = 0.5s
Max. length of detection lead:	1 metre
Action on flame loss:	Recyle

CONTROL BOX INFORMATION

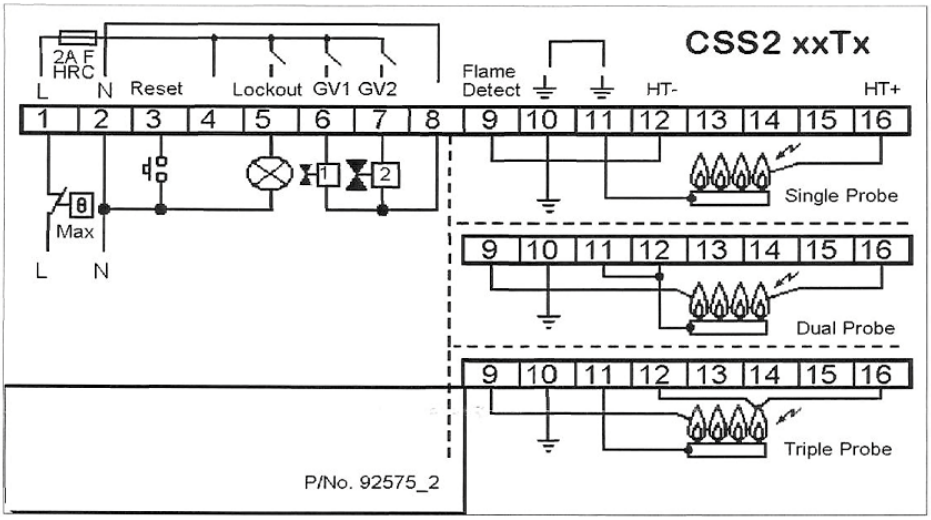
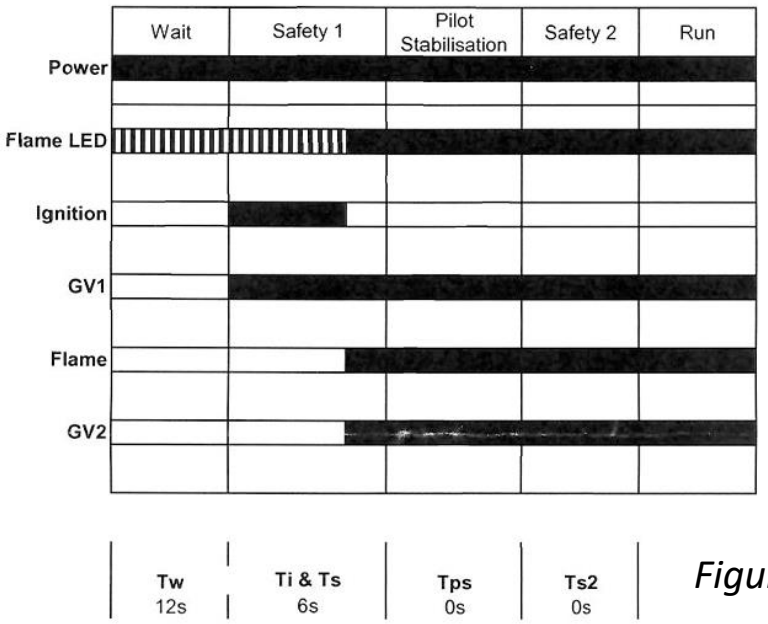


Figure 3 : electrical diagram

The control box must be supplied with 230V. Wire the Ripaflam power supply in your installation.

As an option, it is possible to connect two electrrovalves, which adds safety to your installation when the Ripaflam stops.

Wire the electrovalves in parallel on terminals 6 and 8 of the box (valves EV1 and EV1').



Tw = Wait time
Ti = Ignition time
Ts = 1st safety time
Tps = Pilot Stabilisation time
Ts2 = 2nd safety time

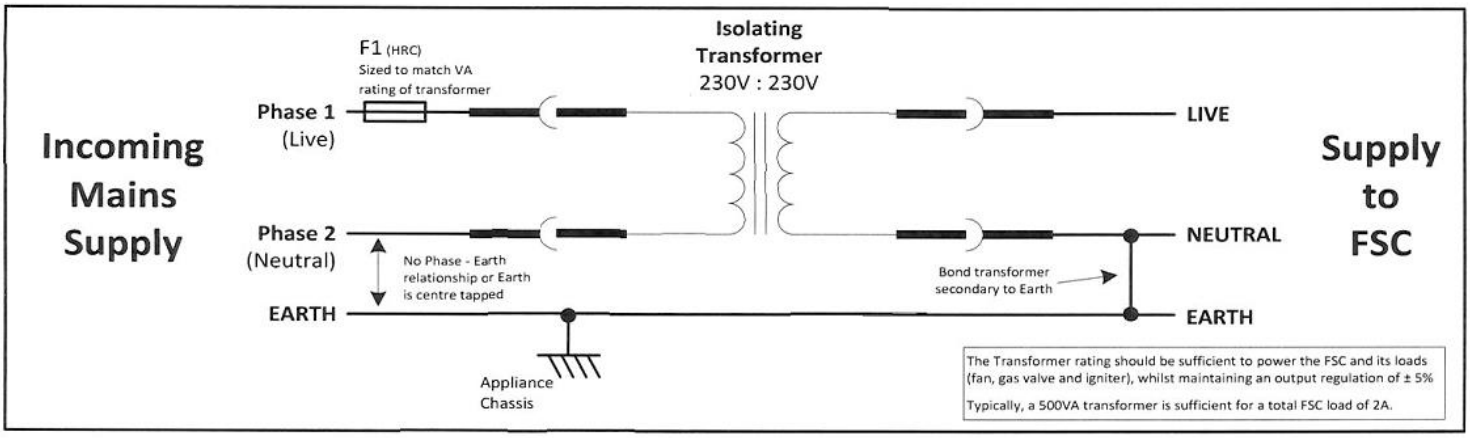
= flashing blue flame Led

Figure 4 : operation diagram

Phase to Earth Bonding

In several countries, due to poor or non-existent neutral to earth bonding, or non-standard electrical distribution systems, it is necessary to provide a reliable flame current return path for the flame detection circuit.

If the supply does not have an EARTH BONDED CONDUCTOR, or is THE EARTH IS DERIVED FROM A CENTRE TAPPING BETWEEN TWO PHASES, then the following method of connection is recommended:

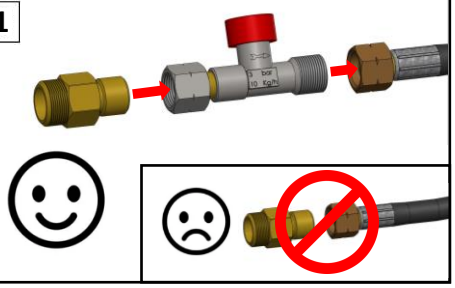


NETWORK CONNECTION

VALVE CONNECTION

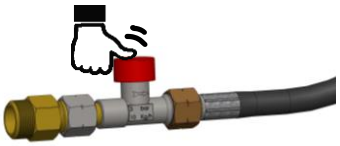
Connect the safety valve directly to your gas network using the natural gas network connector provided (photo below).

1



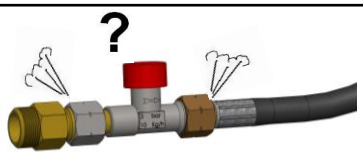
Open the gas network and press the red button for 3 sec to release the gas in the hose..

2



Check the tightness of the screwed parts using a bubble spray or soapy water.

3



The valve is not equipped with a pressure regulator. The Ripaflam works directly with the pressure of the network.

PROPANE GAS

If powered by propane, the Ripaflam will operate over a pressure range of 1.5 to 3.5 bar (21 to 50 psi). Its power varies according to the available network pressure.

Optimal operation is at 3.5 bars (50 psi)

NATURAL GAS

It is necessary to adapt the Ripaflam to the available pressure. The optimal operation of the Ripaflam in natural gas is between 1.5 and 2 bars. (21 to 29 psi)

The table below gives the diameter of the injector according to the network pressure for the correct operation of the Ripaflam.

PRESSION NETWORK bars / psi	GUN POWER kW / Btus	Ø injector	Accessories
0,5 to 0,8 / 7.2 to 11.6	50 / 170 607	210	No
0,8 to 1 / 11.6 to 14.5	50 / 170 607	200	No
1,1 to 1,4 / 15 to 20.3	55 / 187 667.8	190	No
1,5 to 2 / 21.7 to 29	55 / 187 667.8	180	No
2,1 à 2,5 / 30.5 to 36.3	55 / 187 667.8	170	No
2,6 à 3 / 37.7 to 43.5	50 / 170 607	140	Shutter

GAS TANK WARNING

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

RIPAFLAM works with PROPANE gas in the gaseous phase contained in cylinders of different capacities.

	
IT IS FORBIDDEN TO LAY THE GAS CYLINDERS	IT IS PROHIBITED TO USE A PROPANE CYLINDERS IN LIQUID FORM

Use gas tanks of the largest possible capacity.

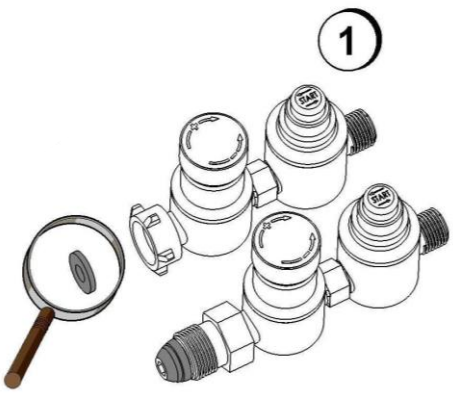
Always plug and unplug cylinders away from flames and ignition points.

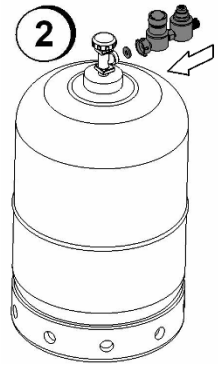
PROPANE GAS

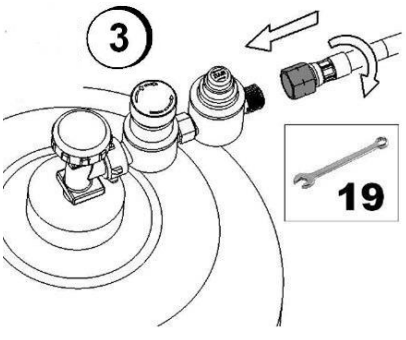
REGULATOR CONNECTION

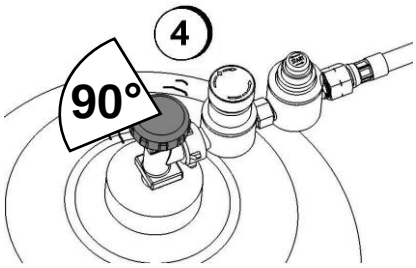
Before connecting the SECURIPACK regulator to the gas cylinder, ensure that the seal is in place for systems using this principle.

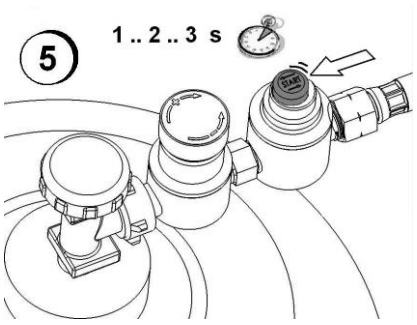
In other cases, ensure that the connection surface is clean.







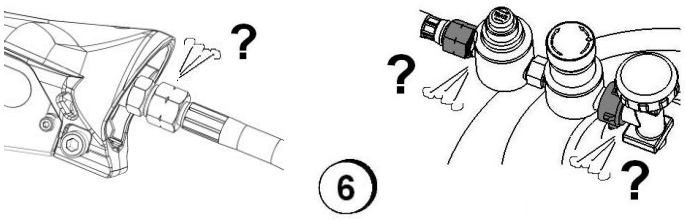




IMPORTANTE NOTE: It is possible to connect the Ripaflam to two gas tanks simultaneously in the case of continuous use with the **connection hose.**

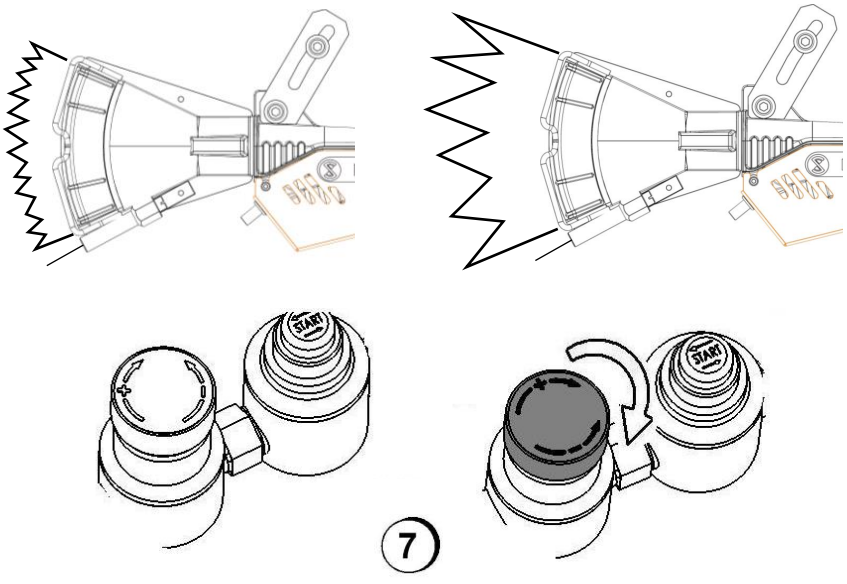
LEAK TESTING

Use a leak detector spray or soapy water to check that there are no leaks on the screwed parts (bottle connections, hose and burner).

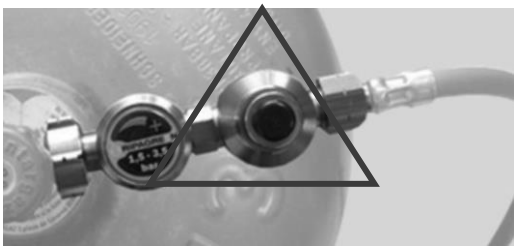


Adjust the power of your equipment according to your needs thanks to the regulator.

POWER ADJUSTMENT



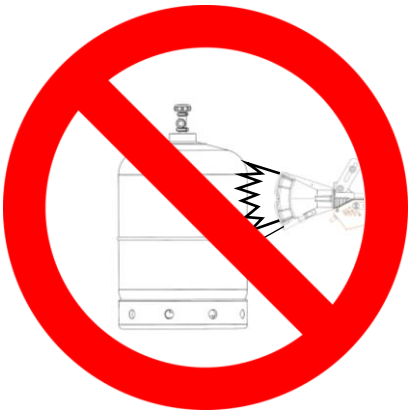
NEVER WORK WHILE HOLDING THE RED BUTTON,



The SECURIPACK 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 the cylinder is practically empty (there are only a few minutes left of use at very low power: change the cylinder);
Or a drop in gas tank 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 TANK TAP AND EMPTY THE HOSE BY SQUEEZING THE HANDLE.

START-UP

Gas supply: open the network / open the gas bottle.

It is essential to prime the regulator or the safety valve.

Wire the Ripaflam power supply to your installation (with the following markers).

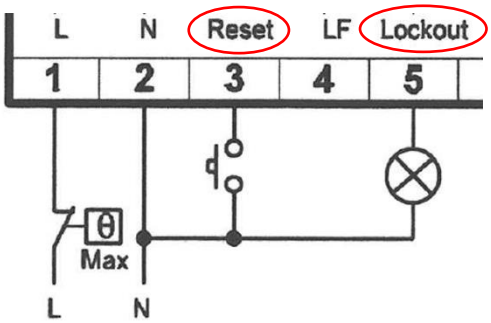
L	N	G
Line	**Neutral**	**Ground**

Starting up the Ripaflam: switch on the box:
- manually with a switch,
- management by an automaton.

Ignition takes place approximately 12 seconds (+/- 10%) after the start-up order.

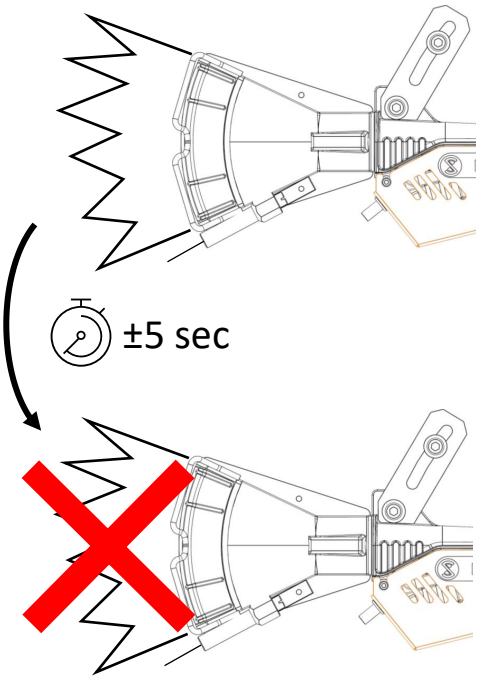
A safety light can be connected between terminal 5 of the control box and the neutral of the power supply. It is “on” when the box does not detect a flame.

A reset button can be connected between terminal 3 of the box and the neutral of the power supply. It allows the RIPAFLAM® to be restarted, if it has gone into safety mode due to the non-detection of the flame.

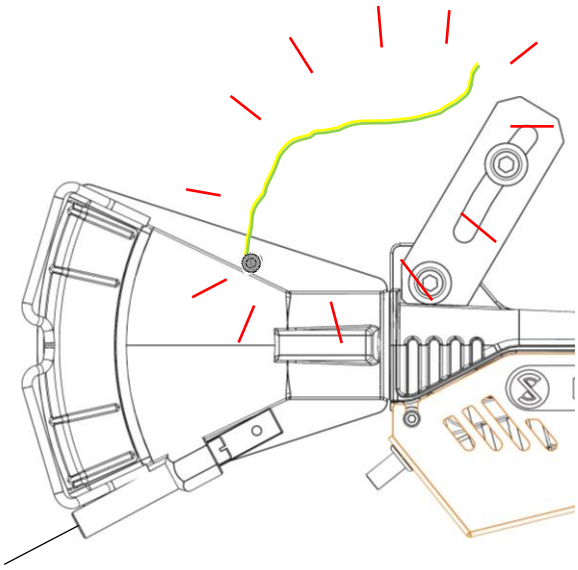


TROUBLESHOOTING

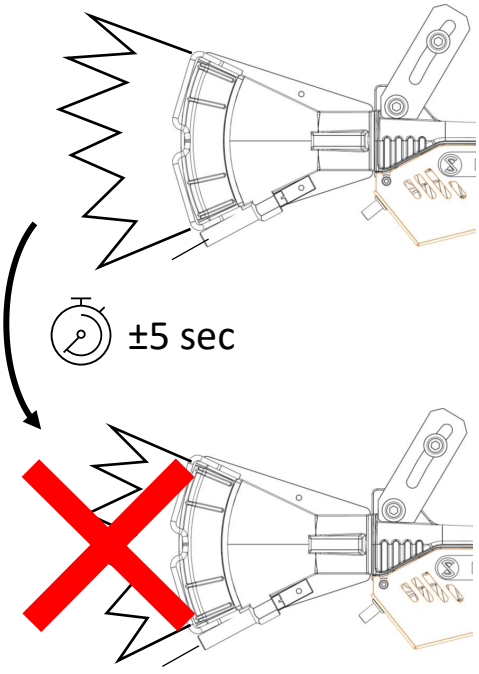
The flame lights correctly but goes out after a few seconds:



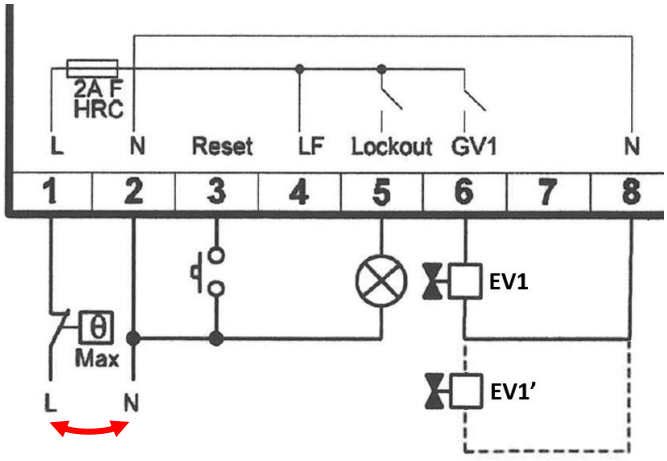
Connect a ground wire directly from the burner to the housing ground.



The flame lights correctly but goes out after a few seconds:



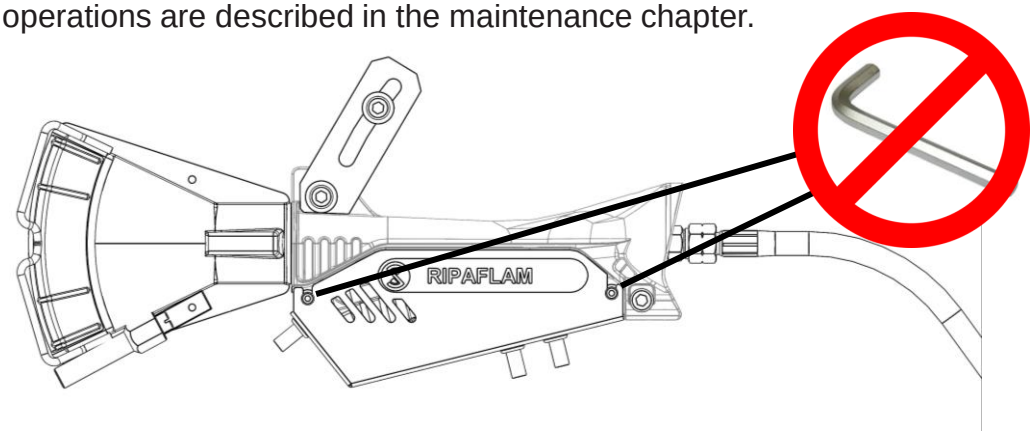
Invert the phase/neutral supply wires of the box, at your outlet or installation.



SPARE PARTS

THE SEFMAT COMPANY DECLINES ALL RESPONSIBILITY IN THE EVENT OF DISASSEMBLY OF THE BURNER.

Contact your retailer for any intervention requiring disassembly of the Ripaflam.
The only authorized operations are described in the maintenance chapter.

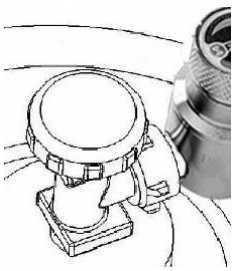
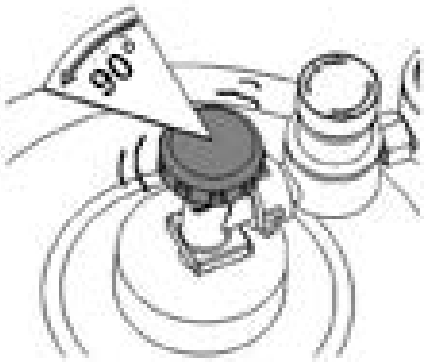


MAINTENANCE

The maintenance of your Ripaflam must imperatively be carried out with the power off and by an approved technician. We recommend that you unplug the Ripaflam from electric and gas supplies.

DIAGNOSTICS OF OPERATING FAULTS

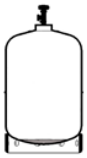
NO GAS LEAVING YOUR RIPAFLAM

<table>
<tr><td colspan="2">CLOSED GAS TANK VALVE
  </td><td rowspan="3">Open the tap to 90°.
 
</td></tr>
<tr><td rowspan="2">FLOW TOO HIGH
(The internal safety of the gas tank can shut off the flow if the tap is opened too far).
  </td><td>Turn off the tap.</td></tr>
<tr><td>Purge the gas circuit in the Ripaflam.</td></tr>
</table>

DIAGNOSTICS OF OPERATING FAULTS
NO GAS LEAVING YOUR RIPAFLAM

IMPOSSIBLE TO START REGULATOR

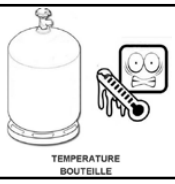
Note: the red button cuts off the gas supply below a pressure that is too low for the gun to operate.



Change the gas tank

The regulator does not works only with propane gas

Continued use causes the gas tank to frost. (Provide a gas tank of replacement while the gas regains its temperature)



Temperature exterior is low. Store the gas tank in a temperate room.

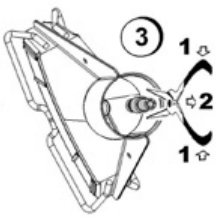
Note: the gas pressure in a cylinder is proportional to the gas temperature.

DIAGNOSTICS OF OPERATING FAULTS
IGNITION DIFFICULTIES

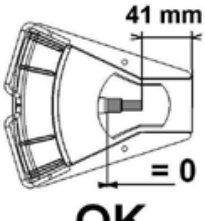
During the following manipulations, it will be necessary to disassemble then reassemble the temperature sensor. Be careful not to twist it, at the risk of causing a malfunction of the Ripaflam.

BROKEN SPARK PLUG

Remove the spark plug using flat pliers. Check whether the ceramic is cracked.



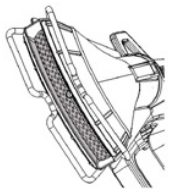
Change the spark plug if necessary.
Be careful to clip the spark plug into its housing (it must not fall out).



OK

DIAGNOSTICS OF OPERATING FAULTS

IGNITION DIFFICULTIES

POLLUTED COMBUSTION NOZZLE 	Clean the grid. Thoroughly clean the spark plug housing which mainly generates the ignition of the flame. We recommend the use of a compressed air gun. 

RIPAFLAM MAINTENANCE

EVERY DAY before starting work:

Check that the hose is in good condition along its entire length and at the fittings. We recommend replacing it in the following cases:

When the visual examination has detected wounds (cuts), even superficial

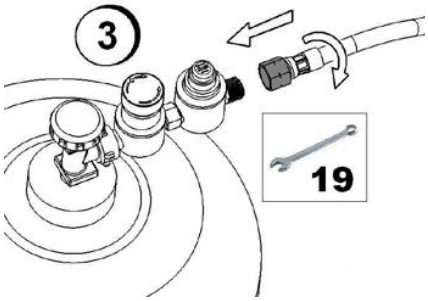
- Every 3 years for intensive use
- At the latest every 5 years after commissioning
- Note: the date appearing on the hose corresponds to its date of manufacture

Only use a replacement hose supplied by Ripack with its original crimped fittings.

CHECKING THE SECURIPACK REGULATOR

EVERY 500 HOURS OR AT LEAST EVERY QUARTER, check the correct operation of the safety device against hose rupture (integrated in the SECURIPACK) as follows:

- Go outdoors, away from all sources of ignition, sparks and any body on fire.
- Put the device under pressure; loosen the nut hose connector and unscrew it completely: the gas must be cut off.



WARRANTY

The Ripaflam benefits from a contractual guarantee for a period of 1 year, from the date of delivery, covering any hidden defect arising from a material, design or manufacturing defect affecting the Ripaflam and rendering it unsuitable for use. 'use.

This contractual guarantee **only applies to the first user of the Ripaflam.**

The purpose of this warranty is to ensure the proper functioning of the Ripaflam which has suffered a breakdown of internal origin. In order to assert his rights, the customer purchasing the Ripaflam pistol must, under penalty of forfeiture of any action relating thereto, inform RIPACK®, in writing to the following address info@sefmat.com, of the existence of the defects within a maximum period of seven (7) days from their discovery.

This warranty covers the costs related to the repair of the Ripaflam (parts, labor and return postage, the outward postage remains the responsibility of the customer) or its replacement (in the event of an impossibility to repair it). It does not give the right to any compensation in kind or in cash.

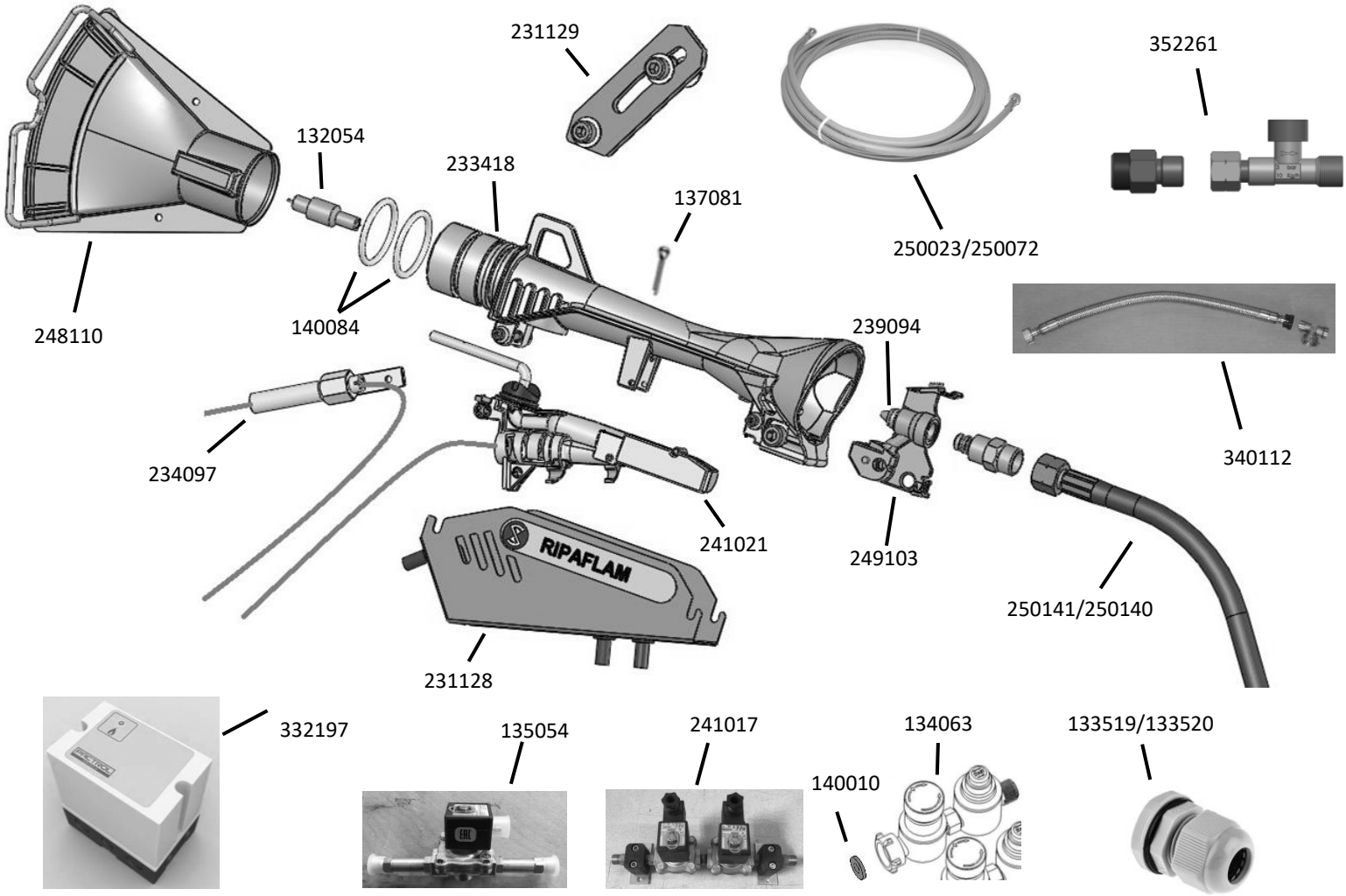
The replacement of defective Products or parts will not have the effect of extending the duration of the guarantee set out above.

The warranty forms an inseparable whole with the Ripaflam sold by SEFMAT or its authorized dealer. Ripaflam cannot be sold or resold altered, transformed or modified.
Note that warranty support for your burner will be provided that the original serial number label is present on the product.

Our 1 year contractual warranty **DOES NOT APPLY** in case of force majeure and does not cover:

- The deterioration, normal wear and tear of the product and in particular **the following wearing parts: spark plug #132054, gas hose #250023.**
- Accessories added after purchasing the product (if applicable, a specific warranty related to the accessory concerned will apply)
- Defects related to damage, fortuitous event or accident resulting for example from a shock or a fall (example: damaged burner or combustion nozzle, bent probe, cracked or broken control box).
- Abnormal use, misuse or use under conditions different from those for which the product was manufactured, in particular in the event of non-compliance with the conditions prescribed in the Ripaflam instructions for use.
- The transformations of the product and in particular the modifications made or the addition of parts not coming from the manufacturer.
- Lack of regular maintenance of the product as described on page 14 of the Ripaflam user manual, negligence or lack of monitoring of the product on the part of the purchasing customer.
- Pre-existing repair of the product not provided by RIPACK® or by an authorized RIPACK® reseller.
- Products no longer bearing the label or identification number or products whose number has been changed.

EXPLODED VIEW



CHECK THE REFERENCE OF YOUR REGULATOR		
1,5-3,5 bar / 21 to 50 psi NF		**134063**
1,5-3,5 bar / 21 to 50 psi UNI		**134096**
1,5-3,5 bar / 21 to 50 psi DIN		**134099**
1,5-3,5 bar / 21 to 50 psi USBS		**134098**

Code art.	Désignation
332197	Electronic Control Box
133519	M12 Cable gland
133520	M16 Cable gland
134063	Adjustable and double safety regulator, NF standard
135054	Solenoid valve
137081	Mass pin
140010	Flat seal for SECURIPACK NF
140084	O-ring Ø interior 34,52 x 3,53 DIN
231128	Carter Ripaflam equipped with grommet
231129	Holding kit Ripaflam
132054	Spark Plug
233418	Gun body with DIN O-rings
234097	RIPAFLAM Flame detection
239094	Standard propane DIN injector
241017	Additional solenoid valve kit
241085	Electrical Connection Kit including RIPAFLAM ignition wire V2
248110	Combustion Nozzle
249103	Complete PROPANE injector support (included: support, injector, obturator)
250023	Hose DIN lg. 26 ft (8 meters), Ø int. 6, clamps & fittings
250072	Hose UL lg. 24 ft (7.5 meters), Ø int. 6, clamps & fittings
250240	Hose DIN lg. 1 ft (0,4 meters), Ø int. 6, clamps & fittings
250241	Hose UL lg. 1 ft (0,4 meters), , Ø int. 6, clamps & fittings
340112	Two-cylinder connection kit NF
240121	KIT GAZ NAT P 0.5 - 0.8 BAR RIPAFLAM R3000
240122	KIT GAZ NAT P 0.8 - 1.0 BAR RIPAFLAM R3000
240123	KIT GAZ NAT P 1.1 - 1.4 BAR RIPAFLAM R3000
240124	KIT GAZ NAT P 1.5 - 2.0 BAR RIPAFLAM R3000
240125	KIT GAZ NAT P 2.1 - 2.5 BAR RIPAFLAM R3000
240111	KIT GAZ NAT P 2.6 - 3.0 BAR RIPAFLAM R3000

DÉCLARATION D'INCORPORATION

DECLARATION OF INCORPORATION

Le fabricant soussigné :
The undersigned manufacturer:

SEFMAT
Rue de Betnoms - 33185 LE HAILLAN - France
www.sefmat.com www.ripack.com

Déclare que la quasi-machine neuve désignée ci-après :
Declares that the partly completed machinery defined below:

RIPAFLAM

(N° de série / *serial number* : **18/910132**)

destiné à la production d'une flamme par combustion de GPL,
intended for the production of a flame by combustion of LPG,

est conforme aux dispositions réglementaires définies par l'annexe 1 de la Directive Européenne 2006/42/CE.
complies with the regulatory provisions defined by the annex 1 of the European Directive 2006/42/ EC.

Le fabricant, l'importateur ou le responsable de la mise sur le marché s'engage à transmettre, à la suite d'une demande dûment motivée des autorités nationales, les informations pertinentes concernant la quasi-machine désignée.

The manufacturer, the importer or the person responsible for placing on the market of the product undertakes to provide, following a duly motivated request from the national authorities, the relevant information concerning the designated partly completed machinery.

Avertissement : La quasi-machine ne doit pas être mise en service avant que la machine finale dans laquelle elle doit être incorporée ait été déclarée conforme aux dispositions pertinentes de l'annexe 1 de la Directive Européenne 2660/42/CE.

Warning: The partly completed machinery must not be commissioned until the end machine in which it must be incorporated has been declared to comply with the relevant provisions of Annex 1 of European Directive 2660/42/EC.

Le Haillan, le / *on* : 6 Mai 2024 / *May 6th 2024*

Le Directeur Général :
Managing Director :

Julien Marigot