

FR	02 / 03-13 / 91-100
EN	02 / 14-24 / 91-100
DE	02 / 25-35 / 91-100
ES	02 / 36-46 / 91-100
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IT	02 / 69-79 / 91-100
PL	02 / 80-90 / 91-100

NEOMIG-i 400 G / 500 G

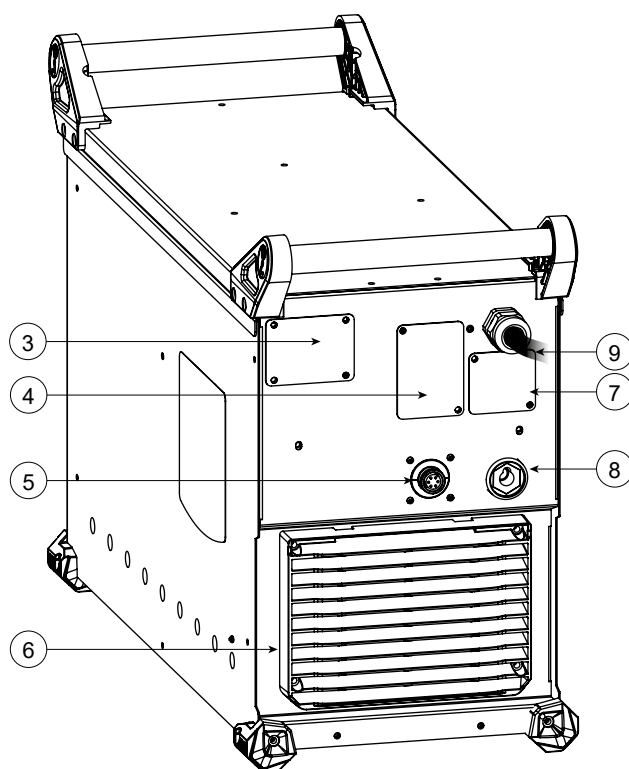
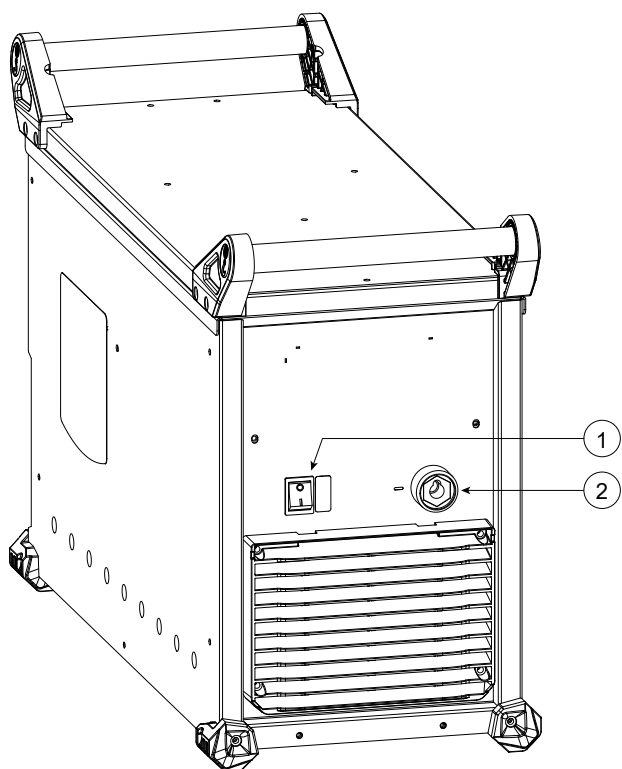
Générateur MIG/MAG - TIG - MMA
MIG/MAG - TIG - MMA welding machine
Schweissgerät für MIG/MAG - WIG - E-Hand
Equipo de soldadura MIG/MAG - TIG - MMA
Сварочный аппарат МИГ/МАГ - ТИГ - MMA
MIG/MAG - TIG - MMA lasapparaat
Dispositivo saldatura MIG/MAG - TIG - MMA
Generator MIG/MAG - TIG - MMA

PROCÉDURE DE MISE À JOUR / UPDATE PROCEDURE

FR Cette procédure est détaillée dans la notice du dévidoir.

EN This procedure is detailed in the wirefeeder manual.

II



WARNINGS - SAFETY INSTRUCTIONS

GENERAL INSTRUCTIONS



These instructions must be read and fully understood before use.

Do not carry out any alterations or maintenance work that is not directly specified in this manual.

The manufacturer shall not be liable for any damage to persons or property resulting from use not in accordance with the instructions in this manual. In case of problems or queries, please consult a qualified tradesperson to correctly install the product.

ENVIRONMENT

This equipment should only be used for welding operations performed within the limits indicated on the information panel and/or in this manual. These safety guidelines must be observed. The manufacturer cannot be held responsible in the event of improper or dangerous use.

The machine must be set up somewhere free from dust, acid, flammable gases or any other corrosive substances. This also applies to the machine's storage. Ensure good air circulation when in use.

Temperature range:

Use between -10 and +40°C (+14 and +104°F).

Store between -20 and +55°C (-4 and 131°F).

Air humidity:

Lower than or equal to 50% at 40°C (104°F).

Lower than or equal to 90% at 20°C (68°F).

Altitude:

Up to 1000m above sea level (3,280 feet).

PROTECTING YOURSELF AND OTHERS

Arc welding can be dangerous and cause serious injury or death.

Welding exposes people to a dangerous source of heat, light radiation from the arc, electromagnetic fields (caution to those using pacemakers) and risk of electrocution, as well as noise and fumes.

To protect yourself and others, please observe the following safety instructions:



To protect yourself from burns and radiation, wear insulating, dry and fireproof clothing without lapels. Ensure the clothing is in good condition and that covers the whole body.



Wear protective gloves which provide electrical and thermal insulation.



Use welding protection and/or a welding helmet with a sufficient level of protection (depending on the specific use). Protect your eyes during cleaning procedures. Contact lenses are specifically forbidden.

It may be necessary to section off the welding area with fireproof curtains to protect the area from arc radiation and hot spatter. Inform people in the welding area not to stare at the arc rays or molten parts and to wear appropriate clothing for protection.



Wear noise protection headphones if the welding process becomes louder than the permissible limit (this is also applicable to anyone else in the welding area).

Keep hands, hair and clothing away from moving parts (the ventilation fan, for example).

Never remove the cooling unit housing protections when the welding power source is live, the manufacturer cannot be held responsible in the event of an accident.



Newly welded parts are hot and can cause burns when handled. When maintenance work is carried out on the torch or electrode holder, ensure that it is sufficiently cold by waiting at least 10 minutes before carrying out any work. The cooling unit must be switched on when using a water-cooled torch to ensure that the liquid cannot cause burns.

It is important to secure the working area before leaving it, in order to protect people and property.

WELDING FUMES AND GAS



The fumes, gases and dusts emitted by welding are harmful to health. Sufficient ventilation must be provided and an additional air supply may be required. An air-fed mask could be a solution in situations where there is inadequate ventilation.

Check the extraction system's performance against the relevant safety standards.

Caution: Welding in confined spaces requires safety monitoring from a safe distance. In addition, the welding of certain materials containing lead, cadmium, zinc, mercury or even beryllium can be particularly harmful. Remove any grease from the parts before welding.

Cylinders should be stored in open or well-ventilated areas. They should be stored in an upright position and kept on a stand or trolley.

Welding should not be carried out near grease or paint.

RISK OF FIRES AND EXPLOSIONS



Fully shield the welding area, flammable materials should be kept at least 11 metres away. Fire fighting equipment should be kept close to wherever the welding activities are being undertaken.

Beware the expulsion of hot spatter or sparks, even through cracks, which can cause fires or explosions.

Keep people, flammable objects and pressurised containers at a safe distance.

Welding in closed containers or tubes is to be avoided. If the containers or tubes are open, they must be emptied of all flammable or explosive materials (oil, fuel, gas residues, etc.).

Grinding work must not be directed towards the source of the welding current or towards any flammable materials.

GAS CYLINDERS



Gas escaping from cylinders can cause suffocation if there is too high a concentration of it in the welding area (ensure good ventilation).

The machine must be transported in complete safety: gas cylinders must be closed and the welding power source turned off. They should be stored upright and supported to limit the risk of falling.

Close the cylinder between uses. Beware of temperature variations and exposure to the sun.

The cylinder must not come into contact with flames, arcs, torches, earth clamps or any other sources of heat or ignition.

Be sure to keep it away from electrical and welding circuits. Never weld a pressurised cylinder.

When opening the cylinder valve, keep your head away from the valve and ensure that the gas being used is suitable for the welding process.

ELECTRICAL SAFETY



The electrical network used must be earthed. Use the recommended fuse size from the rating plate. An electric shock can be the source of a serious accident, whether directly or indirectly, or even death.

Never touch live parts connected to the live current, either inside or outside the power source casing unit (torches, clamps, cables, electrodes), as these items are connected to the welding circuit.

Before opening the welding machine's power source, disconnect it from the mains and wait two minutes to ensure that all the capacitors have fully discharged.

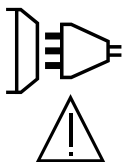
Do not touch the torch or the electrode holder and the earth clamp at the same time.

If the cables or torches become damaged, they must be replaced by a qualified and authorised person. Measure the cable cross-section according to the intended application. Always use dry and in-fact clothing to insulate yourself from the welding circuit. Alongside this, wear well-insulated footwear in all working environments.

EMC CLASSIFICATION



This Class A device is not intended for use in a residential environment where power is provided by the public low-voltage local supply network. Ensuring electromagnetic compatibility may be difficult at these sites due to conducted, as well as radiated, radio frequency interference.



Provided that the impedance of the public low-voltage supply network is less than $Z_{max} = 0.29$ Ohms at the common coupling point, this equipment complies with IEC 61000-3-11 and can be connected to public low-voltage electrical supply. It is the responsibility of the fitter or operator of the equipment to ensure, by consulting the electricity distribution network provider if necessary, that the network impedance complies with impedance restrictions.

This equipment complies with the IEC 61000-3-12 standard.

ELECTROMAGNETIC INTERFERENCES



An electric current passing through any conductor produces localised electric and magnetic fields (EMF). The welding current produces an electromagnetic field around the welding circuit and the welding equipment.

Electromagnetic fields (EMFs) can interfere with some medical devices, for example pacemakers. Protective measures must be taken for people with medical implants. For example, restricted access for onlookers or an individual risk assessment for welders.

All welders should use the following guidelines to minimise exposure to the welding circuit's electromagnetic fields:

- position the welding cables together - securing them with a clamp if possible;
- position yourself (head and body) as far away from the welding circuit as possible,
- never wrap the welding cables around your body,

- do not position yourself between the welding cables. and keep both welding cables on your same side;
- connect the return cable to the workpiece, as close as possible to the area to be welded,
- do not work next to, sit or lean on the source of the welding current,
- do not transport the welding power source or wire feeder while welding.



Pacemaker users should consult a doctor before using this equipment.
Exposure to electromagnetic fields during welding may have other health effects that are not yet known.

RECOMMENDATIONS FOR ASSESSING THE WELDING AREA AND EQUIPMENT

General Information

It is the user's responsibility to install and use the arc welding equipment according to the manufacturer's instructions. If electromagnetic disturbances are detected, it is the user's responsibility to resolve the situation using the manufacturer's technical support. In some cases, this corrective action may be as simple as earthing the welding circuit. In other cases, it may be necessary to construct an electromagnetic shield around the welding current source and around the entire workpiece by setting up input filters. In any case, electromagnetic interference should be reduced until it is no longer an inconvenience.

Assessing the welding area

Before installing arc welding equipment, the user should assess the potential electromagnetic problems in the surrounding area. The following should be taken into account:

- a) the presence of power, control, signal and telephone cables above, below and next to the arc welding equipment,
- b) radio and television receivers and transmitters,
- c) computers and other control equipment,
- d) critical safety equipment, e.g. the protection of industrial equipment,
- e) the health of nearby persons, e.g. those using of pacemakers or hearing aids,
- f) the equipment used for calibrating or measuring,
- g) the protection of other surrounding equipment.

The operator has to ensure that the devices and equipment used in the same area are compatible with each other. This may require further protective measures;

- h) the time of day when welding or other operations are to be carried out.

The size of the surrounding area to be taken into account will depend on the building's structure and the other activities taking place there. The surrounding area may extend beyond the boundaries of the premises.

Assessment of the welding equipment

In addition to the assessment of the surrounding area, the arc welding equipment's assessment can be used to identify and resolve cases of interference. It is appropriate that the assessment of any emissions should include in situ procedures as specified in Article 10 of CISPR 11. In situ measurements can also be used to confirm the effectiveness of mitigation measures.

GUIDELINES ON HOW TO REDUCE ELECTROMAGNETIC EMISSIONS

a. The mains power grid: Arc welding equipment should be connected to the mains power grid according to the manufacturer's recommendations. If any interference occurs, it may be necessary to take additional precautionary measures such as filtering the mains power supply. Consider protecting the power cables of permanently installed arc welding equipment within a metal pipe or a similar casing. The power cable should be protected along its entire length. The shield should be connected to the welding power source to ensure that there is good electrical contact between the conduit and the welding power source enclosure.

b. The maintenance of arc welding equipment: Arc welding equipment should be subject to routine maintenance as recommended by the manufacturer. All access points, service openings and bonnets should be closed and properly locked when the arc welding equipment is in use. The arc welding equipment should not be modified in any way, except for those modifications and adjustments mentioned in the manufacturer's instructions. The spark gap of arc starters and stabilisers should be adjusted and maintained according to the manufacturer's recommendations.

c. Welding cables: Cables should be as short as possible, placed close together either near or on the ground.

d. Equipotential bonding: Consideration should be given to linking all metal objects in the surrounding area. However, metal objects connected to the workpiece increase the risk of electric shocks to the user if they touch both these metal parts and the electrode. It is necessary to insulate the operator from such metal objects.

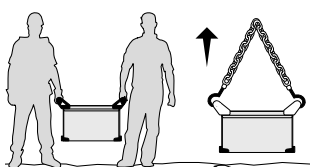
e. Earthing the workpiece: In cases where the part to be welded is unearthed for electrical safety reasons or due to its size and location, such as ship hulls or structural steel buildings, an earthed connection can reduce emissions in some cases, although not always. Care should be taken to avoid the earthing of parts which could increase the risk of injury to users or damage to other electrical equipment. If necessary, the workpiece's connection should be earthed directly, but in some countries where a direct connection is not allowed, the connection should be made with a suitable capacitor chosen according to national regulations.

f. Protection and protective casing: The selective protection and encasing of other cables and equipment in the surrounding area may limit interference problems. The safeguarding of the entire welding area may be considered for special applications.

THE TRANSPORTING AND MOVING OF THE MACHINE'S POWER SOURCE



The machine is equipped with two handles to facilitate transport, which requires two people.
Do not use the cables or torch to move the machine. It should be moved in an upright position.
Do not carry or transport the power source overhead of people or objects.



Never lift the machine while there is a gas cylinder on the support shelf. Their transportation requirements are different.

SETTING UP THE EQUIPMENT

- Place the welding power source on a floor with a maximum inclination of 10°.
 - Provide sufficient space to ventilate the welding power source and access the controls.
 - Do not use in an area with conductive metal dust.
 - The welding power source should be protected from heavy rain and not exposed to direct sunlight.
 - The machine is IP23 rated, meaning:
 - the dangerous parts of the machine are protect against entry by objects greater than 12.5 mm and,
 - protection against the rain inclined at 60° towards the vertical.
- These devices can be used outside in accordance with the IP23 protection index.

The power cables, extensions and welding cables must be fully uncoiled to prevent overheating.



The manufacturer assumes no responsibility for damage to persons or objects caused by improper and dangerous use of this equipment.

MAINTENANCE / RECOMMENDATIONS



- Maintenance should only be carried out by a qualified person. Annual maintenance is recommended.
- Switch off the power supply by pulling the plug and wait two minutes before working on the equipment.. Inside the machine, the voltages and currents are high and dangerous.

- Regularly remove the cover and blow out any dust. Take advantage of the opportunity to have the electrical connections checked with an insulated tool by a qualified professional.
- Regularly check the condition of the power cable. If the power cable is damaged, it must be replaced by the manufacturer, the after sales service team or an equally qualified person to avoid any danger.
- Leave the welding power source vents free for air intake and outflow.
- Do not use this welding power source for thawing pipes, recharging batteries/storage batteries or starter motors.

INSTALLATION - USING THE PRODUCT

Only experienced personnel, authorised by the manufacturer, may carry out the machine's set-up. During set-up, ensure that the power source is unplugged from the mains. Series or parallel power source connections are not allowed. It is recommended to use the welding cables supplied with the unit in order to obtain the optimum product settings.

DESCRIPTION

This machine is a three-phase power source for semi-automatic, software-supported welding (MIG or MAG), coated electrode welding (MMA) and refractory electrode welding (TIG). The use of a separate wire feeder is required (sold separately).

DESCRIPTION OF THE EQUIPMENT (II)

- | | |
|---|-----------------------------|
| 1- START/STOP switch | 6- External grill |
| 2- Negative polarity socket | 7- Cover option |
| 3- Cover option | 8- Positive polarity socket |
| 4- Cover option | 9- Mains cable (5 m) |
| 5- Connector for external wire feeder control | |

POWER SWITCH

This machine is fitted with a 32A socket type EN 60309-1 which must only be used on a three-phase 400 V (50-60 Hz) four-wire earthed electrical installation.

The absorbed effective current (I_{1eff}) is indicated on the device for optimum operating conditions. Check that the power supply and its protection (fuse and/or circuit breaker) are compatible with the current required to run the machine. In some countries, it may be necessary to change the plug to allow the use at maximum settings.

- The power source is designed to operate on 400V +/-15%. The unit enters protection mode if the supply voltage is less than 330Vrms or greater than 490Vrms (a fault code will appear on the display).
- Starting is done by pressing the START/STOP switch (On), and stopping is done by pressing the same switch (Off). **Warning! Never switch off the power supply while the unit is under load.**

CONNECTING TO A POWER SOURCE

This equipment can be operated with electric generators provided that the auxiliary power supply meets the following requirements:

- The voltage must be alternating with an RMS value of 400V +/- 15% and a peak voltage of less than 700V.
- The frequency must be between 50 and 60 Hz.

It is vital to check these conditions as many generators produce high voltage peaks that can damage equipment.

USING EXTENSION LEADS

All extension leads must be of a suitable length and width that is appropriate to the equipment's voltage. Use an extension lead that complies with national safety regulations.

Input voltage	Length - Cross-section of the extension cable (Length < 45m)
400 V	4mm ²

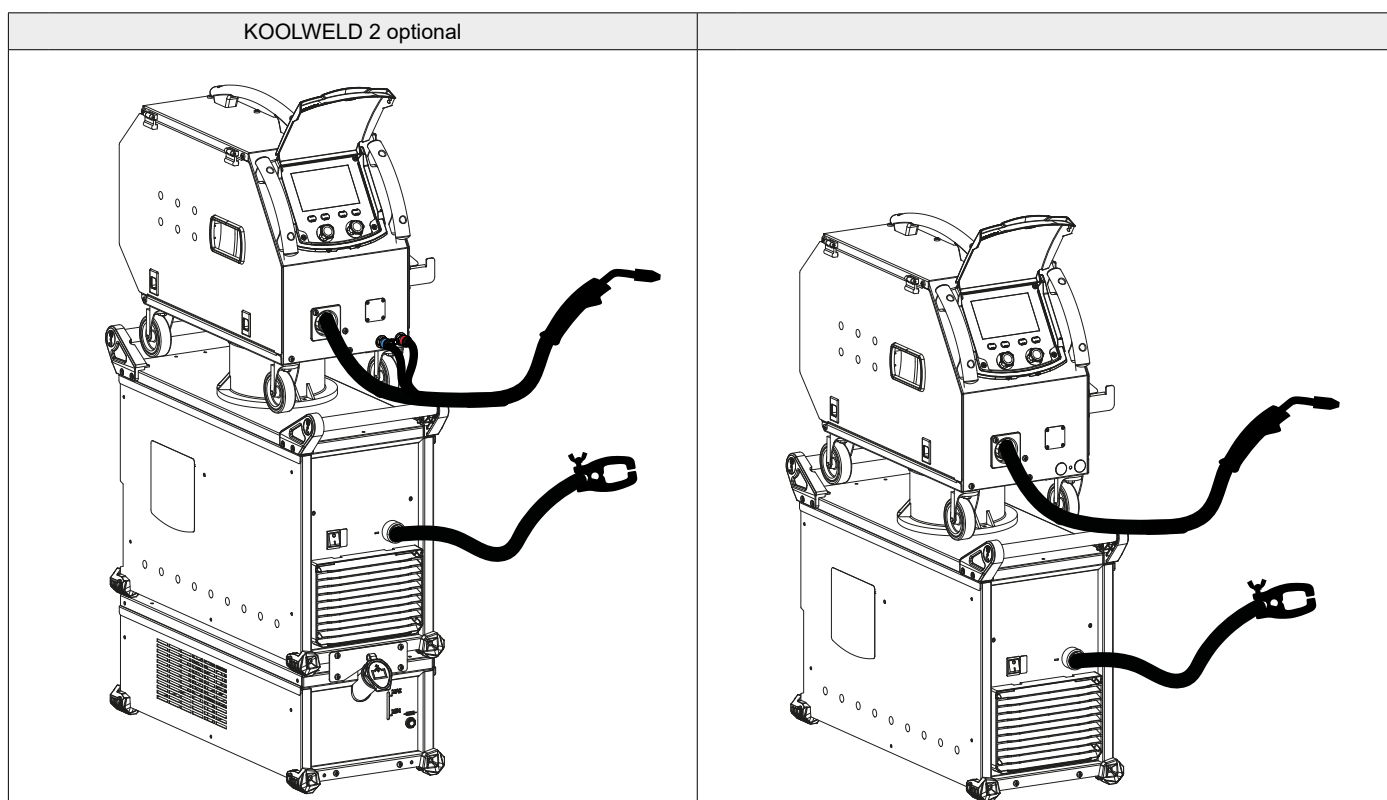
CONNECTING OF THE INTERCONNECTION CABLE

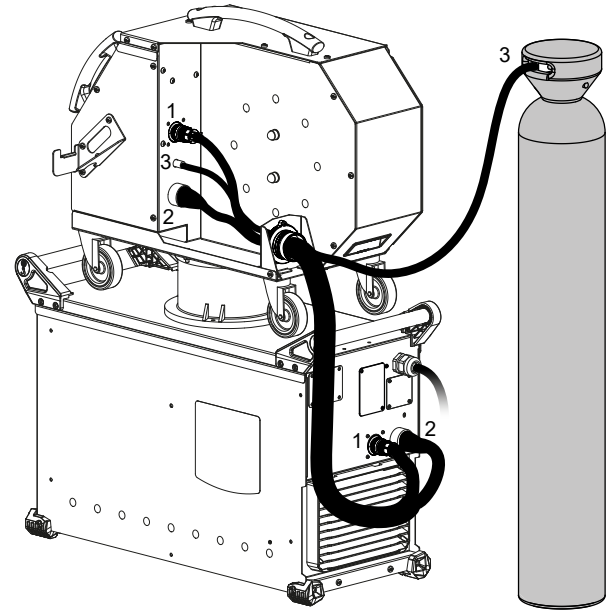
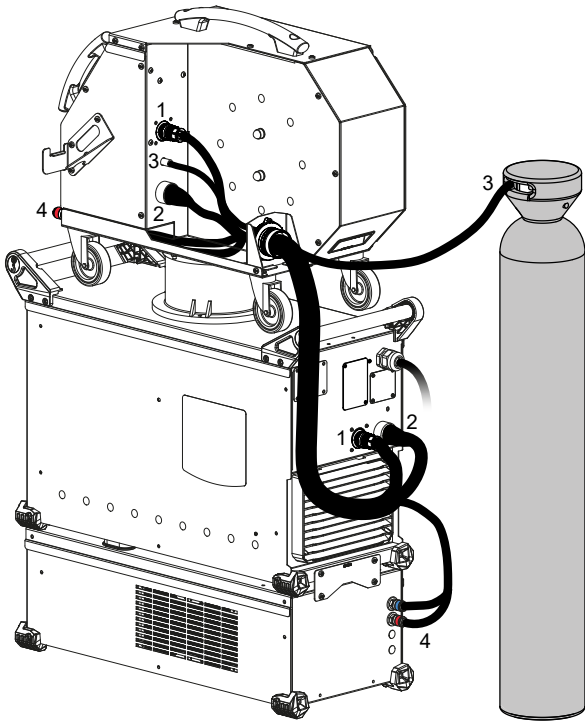


Make sure the main welding power source switched off when connecting or disconnecting the wire feeder. Ensure the machine is unplugged from the mains, and then wait 2 minutes.

For details of the wiring harness connection between the generator and the wire feeder, please refer to the separate wire feeder manual (optional). The diagrams below describe the minimum requirements for the various different welding processes. The user can leave any unused connections (gas connection in MMA welding, power cable on the wire feeder in MMA and TIG welding, etc.) if they wish.

MIG-MAG welding (positive polarity)





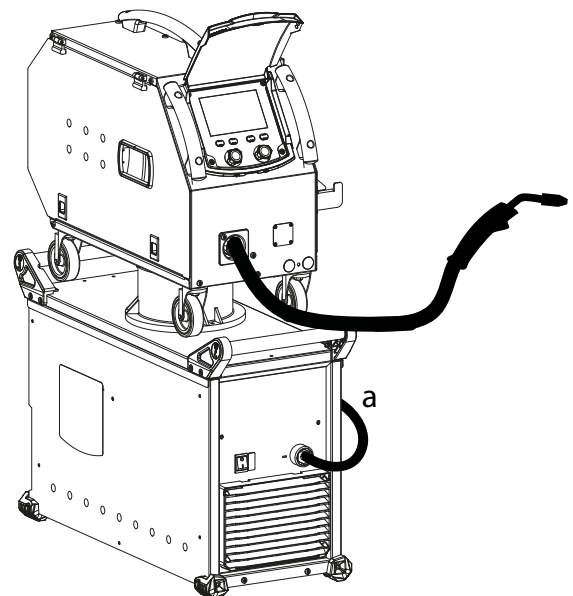
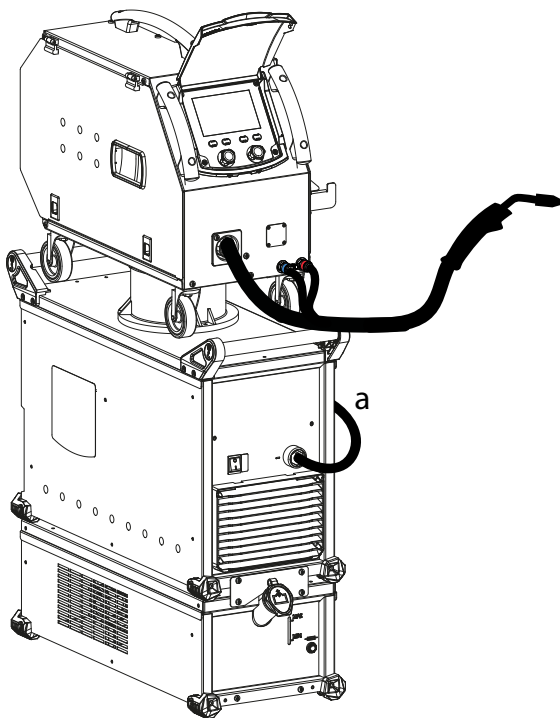
1	Control
2	Power
3	Gas
4	Water cooling

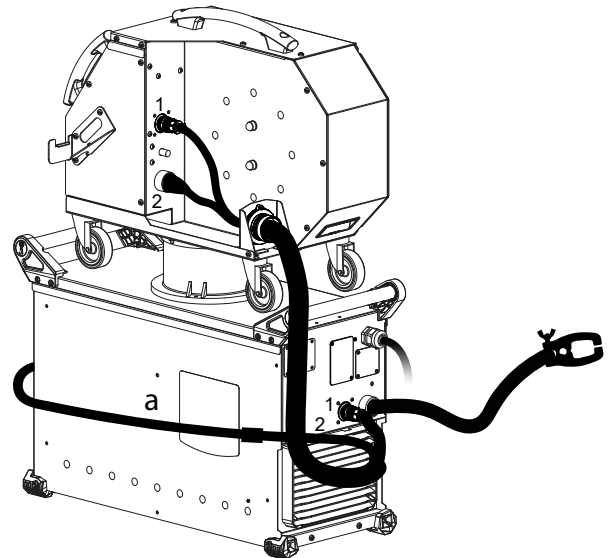
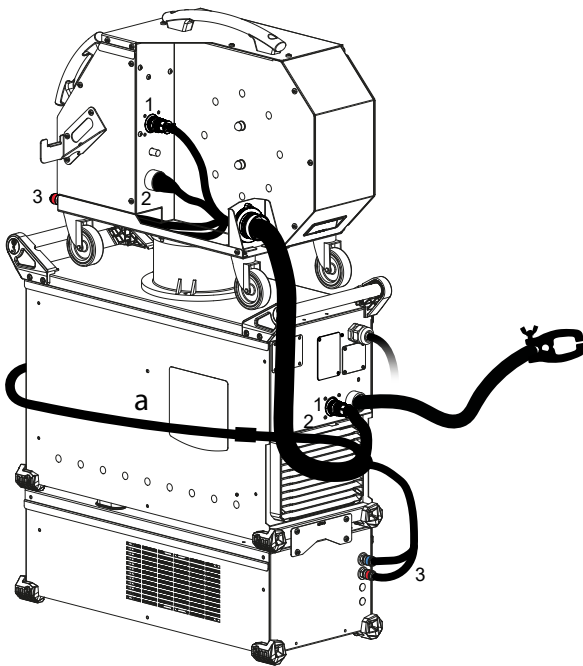
1	Control
2	Power
3	Gas

MIG-MAG welding (negative polarity)

MIG/MAG welding without gas shielding generally requires negative polarity. In this case, it is necessary to use the optional polarity reversal cable accessory (a). In any case, refer to the wire manufacturer's recommendations for the choice of polarity for your MIG-MAG torch.

KOOLWELD 2 optional





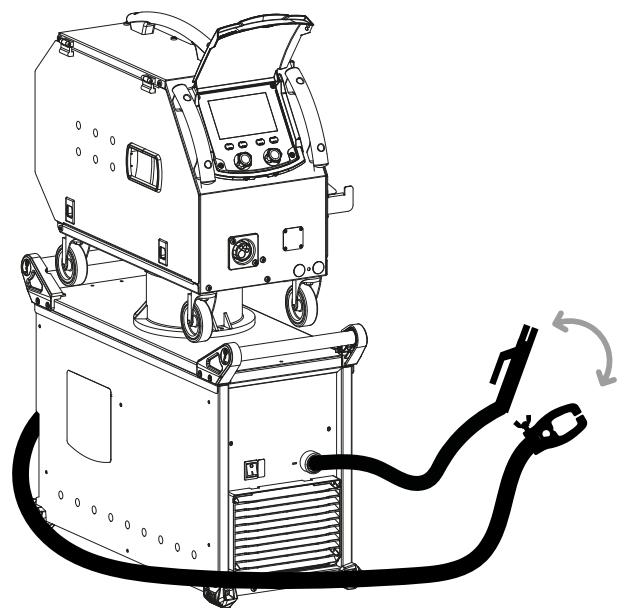
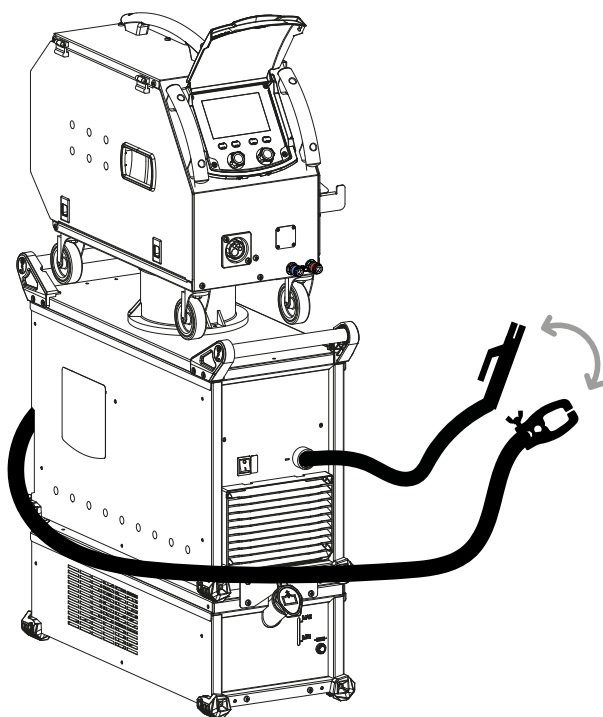
- 1 Control
- 2 Power
- 3 Water cooling
- q Reverse polarity cable (optional)

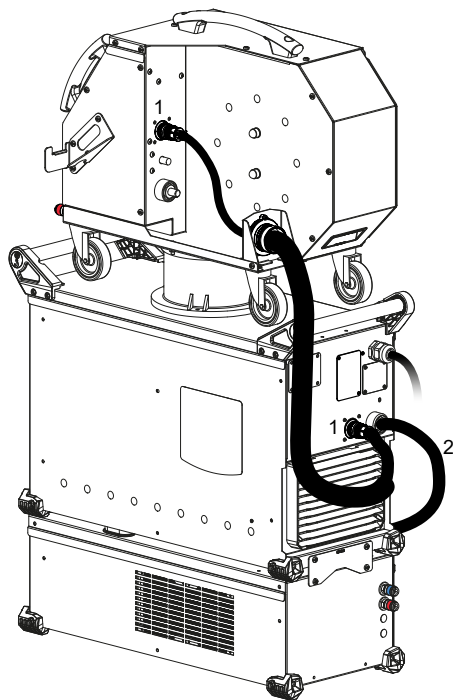
- 1 Control
- 2 Power
- q Reverse polarity cable (optional)

MMA Welding

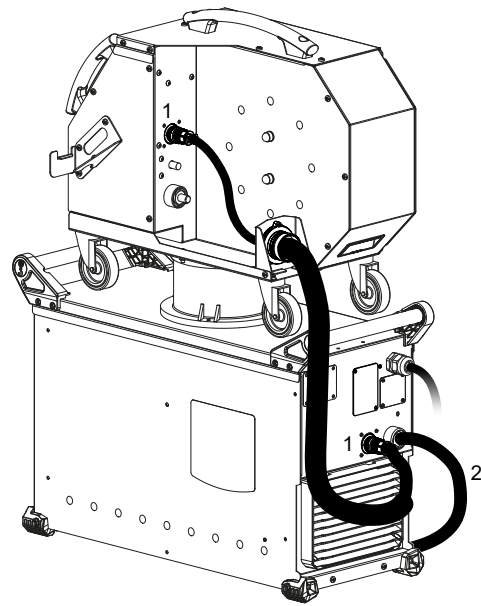
Ensure that the polarities and welding intensities indicated on the electrode packaging are observed. Remove the electrode from the electrode holder when the machine is not in use. Do not connect the MIG-MAG or TIG torch when the machine is being used for MMA welding.

KOOLWELD 2 optional





- 1 Control
- 2 Ground clamp or electrode holder

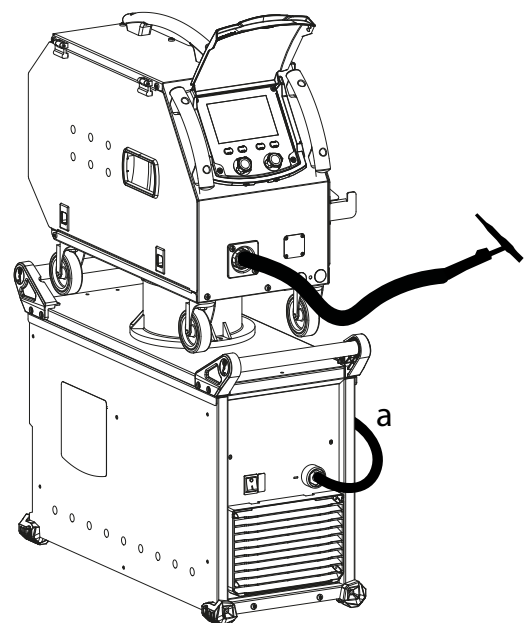
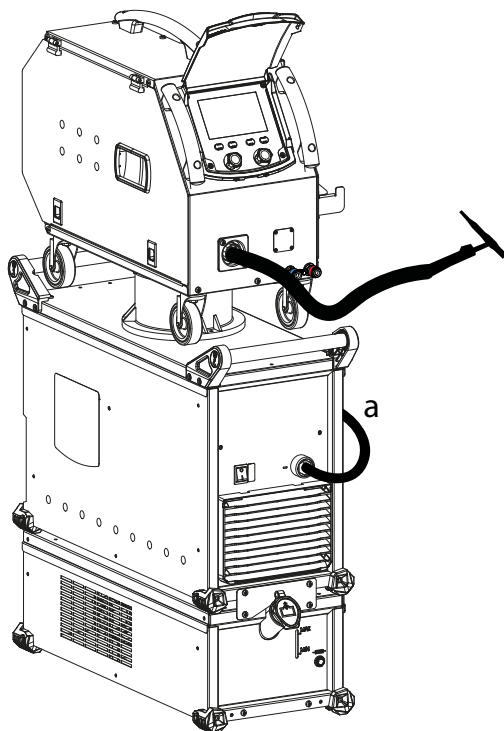


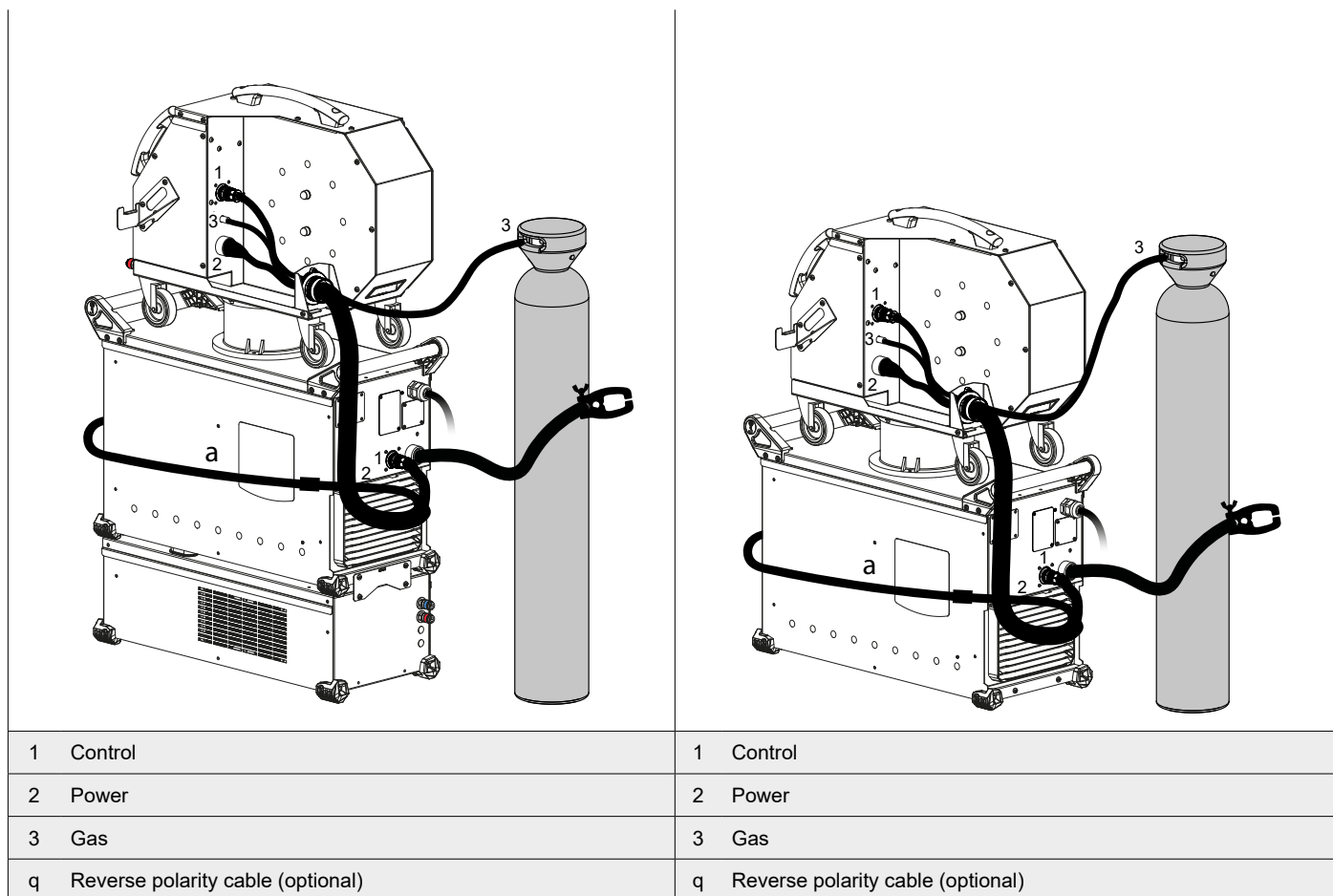
- 1 Control
- 2 Ground clamp or electrode holder

TIG welding (with TIG torch EURO connector)

DC TIG welding requires protective gas shielding (Argon). Ensure that the torch is properly fitted and that the consumables (vice grip pliers, collet bodies, diffusers and nozzles) are not worn out. It is necessary to use the optional polarity reversal cable accessory (a).


KOOLWELD 2 optional



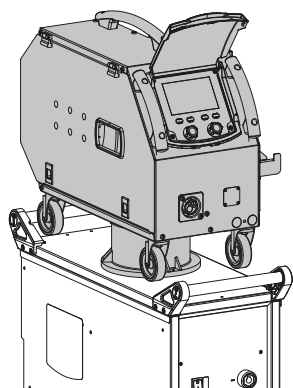


It is also possible to use an optional valve TIG torch. This must be connected to the negative polarity socket on the front of the power source (II-2).

POLARITY REVERSAL CABLE ACCESSORY

	Length	Section	Reference
	1.3m	95mm ²	033689
	5m		032439
	10m		032446

OPTIONAL WIREFEEDER



This product has to be equipped with a separate wire feeder WF 35 (ref. 075078) or WF 50 (option, ref. 075108). The connection between these two parts is made through a dedicated interconnection cable, available separately:

Type of torch cooling	Length	Section	Reference
Air	5m	70mm ²	075443
	10m	70mm ²	075450
		95mm ²	077553
Water	1.8m	70mm ²	075467
	5m	70mm ²	075474
		70mm ²	075481
	10m	95mm ²	075504

OPTIONAL COOLING UNIT

Reference	Product Name	Cooling Capacity	Capacity	Power supply voltage	Liquid coolant (optional)	
					5 litres 062511	10 litres 052246
075115	KOOLWELD 2	890 W	5.5 L	400 V +/-15%		

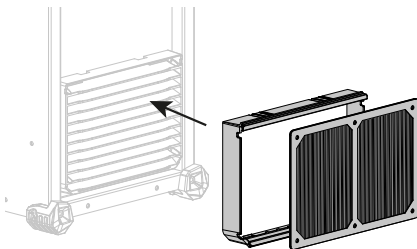
The cooling unit is automatically detected by the machine. To deactivate the cooling unit (OFF), please refer to the interface manual. The safeguards provided by the cooling unit are to protect the torch and the user, and are as follows:

- Minimum coolant level.
- Minimum flow rate of coolant flowing through the torch.
- Thermal protection of the coolant.



Make sure that the cooling unit is turned off before disconnecting the inlet and outlet hoses for torch liquid. Coolant is harmful and irritates the eyes, mucous membranes and skin. Hot liquid can cause burns.

OPTIONAL FILTER KIT



Dust filter (ref. 046580) with filtration to: 630 µm (0.63 mm). Please note that the use of this filter reduces the duty cycle of your machine.

To avoid the risk of overheating due to clogged air vents, the dust filter should be cleaned on a regular basis. Unclip and clean with compressed air.

DEFECTS, CAUSES, AND SOLUTIONS

SYMPTOMS	POSSIBLE CAUSES	SOLUTIONS
The flow rate of the welding wire is not constant.	Clogs blocking the opening.	Clean the contact tube or replace it with non-stick material.
	The wire is slipping on the rollers.	Reapply the non-stick product.
	One of the rollers is spinning.	Check the tightness of the roller screw.
	The torch cable is twisted.	The torch cable should be as straight as possible.
The unwinding mechanism is not working.	The spool's brake or roller is too tight.	Loosen the brake and rollers.
Incorrect unwinding of the wire.	Dirty or damaged wire guide.	Clean or replace.
	Roller pin key is missing.	Reposition the pin in its slot.
	Spool's brake is too tight.	Release the brake.
No current or wrong welding current.	Incorrect mains outlet connection.	Check the plug connection and verify that the plug is connected to the power supply.
	Poor earth connection.	Check the earthing cable (its connection and the condition of the clamp).
	Power problem.	Check the torch trigger.
	Spooling problem.	
The wire jams after passing through the rollers.	Crushed wire guide sheath.	Check the wire-guide sheath and body of the torch..
	Wire blockage in the torch.	Replace or clean.
	No capillary tube.	Check that the capillary tube is present.
	Wire speed too high.	Reduce the wire speed.

The weld bead is porous.	The gas flow is insufficient.	Adjustment range from 15 to 20 L / min. Clean the base metal.
	Gas cylinder empty.	Replace it.
	Unsatisfactory gas quality.	Replace it.
	Air circulation or wind influence.	Avoid draughts and protect the welding area.
	Gas nozzle is too clogged.	Clean or replace the gas nozzle.
	Bad wire quality.	Use a wire suitable for MIG/MAG welding.
	Condition of the welding surface is too poor (rusted, etc.).	Clean the workpiece before welding.
	The gas is not connected.	Check that the gas is connected to the power source's inlet.
Excessive sparks.	Arc voltage is too low or too high.	See welding settings.
	Poor earth connection.	Check and position the earth clamp as close as possible to the area to be welded.
	Insufficient gas protection.	Adjust the gas flow.
No gas coming from the torch.	Poor gas connection.	Check the connections of gas inlets. Check that the solenoid valve is working.
	Problem with the gas bottle	Check the gas level. Check the gas supply.
Error while downloading.	The data on the USB stick is incorrect or corrupted.	Check your data.
Backup error.	You have exceeded the maximum number of backups.	You need to delete some programs. The number of backups is limited to 200.
Automatic deletion of JOBS.	Some of your JOBS have been deleted because they were incompatible with the new pre-installed user settings (synergies).	-
USB key error.	There is no JOB detected on the USB stick.	-
	The product's memory space is full.	Free up some space on the USB key.
File error.	The file does not match the pre-installed user settings (synergies) downloaded to the product.	The file was created with pre-installed user settings (synergies) that are not present on the machine.
Update problem	The USB stick is not recognised. The visualisation of step 4 of the update procedure does not appear on the display.	1- Insert the USB key into its socket. 2- Turn on the power source. 3- Press and hold the 2 push-buttons (no. 2 and no. 3) on the HMI to force the update.

WARRANTY CONDITIONS

The warranty covers any defects or manufacturing faults for two years from the date of purchase (parts and labour).

The warranty does not cover:

- Any other damage caused during transport.
- The general wear and tear of parts (i.e. : cables, clamps, etc.).
- Incidents caused by misuse (incorrect power supply, dropping or dismantling).
- Environment-related faults (such as pollution, rust and dust).

In the event of a breakdown, please return the item to your distributor, along with:

- dated proof of purchase (receipt, invoice, etc.),
- a note explaining the malfunction.

ADVERTENCIAS - NORMAS DE SEGURIDAD

CONSIGNA GENERAL



Estas instrucciones se deben leer y comprender antes de toda operación.
Toda modificación o mantenimiento no indicado en el manual no se debe llevar a cabo.

Todo daño físico o material debido a un uso no conforme con las instrucciones de este manual no podrá atribuírsele al fabricante. En caso de problema o de incertidumbre, consulte con una persona cualificada para manejar correctamente el aparato.

ENTORNO

Este material se debe utilizar solamente para realizar operaciones de soldadura dentro de los límites indicados en el aparato y el manual. Se deben respetar las instrucciones relativas a la seguridad. En caso de uso inadecuado o peligroso, el fabricante no podrá considerarse responsable.

La instalación se debe hacer en un local sin polvo, ni ácido, ni gas inflamable u otras sustancias corrosivas. Igualmente para su almacenado. Hay que asegurarse de que haya una buena circulación de aire cuando se esté utilizando.

Zona de temperatura:

Uso entre -10 et +40°C (+14 et +104°F).

Almacenado entre -20 y +55°C (-4 y 131°F).

Humedad del aire :

Inferior o igual a 50% a 40°C (104°F).

Inferior o igual a 90% a 20°C (68°F).

Altitud:

Hasta 1000 m por encima del nivel del mar (3280 pies).

PROTECCIÓN INDIVIDUAL Y DE LOS OTROS

La soldadura al arco puede ser peligrosa y causar lesiones graves e incluso mortales.

La soldadura expone a los individuos a una fuente peligrosa de calor, de radiación luminica del arco, de campos electromagnéticos (atención a los que lleven marcapasos), de riesgo de electrocución, de ruido y de emisiones gaseosas.

Para protegerse correctamente y proteger a los demás, siga las instrucciones de seguridad siguientes:



Para protegerse de quemaduras y de radiaciones, lleve ropas sin solapas, aislantes, secos, ignífugos y en buen estado que cubran todo el cuerpo.



Utilice guantes que aseguren el aislamiento eléctrico y térmico.



Utilice una protección de soldadura y/o una capucha de soldadura de un nivel de protección suficiente (variable según aplicaciones). Protéjase los ojos durante operaciones de limpieza. Las lentillas de contacto están particularmente prohibidas.

A veces es necesario delimitar las zonas mediante cortinas ignífugas para proteger la zona de soldadura de los rayos del arco, proyecciones y de residuos incandescentes.

Informe a las personas en la zona de soldadura de que no miren los rayos del arco ni las piezas en fusión y que lleven ropas adecuadas para protegerse.



Utilice un casco contra el ruido si el proceso de soldadura alcanza un nivel de ruido superior al límite autorizado (así como cualquier otra persona que estuviera en la zona de soldadura).

Las manos, el cabello y la ropa deben estar a distancia de las partes móviles (ventilador).

No quite nunca el cárter del grupo de refrigeración del aparato estando bajo tensión, el fabricante no podrá ser considerado responsable en caso de accidente.



Las piezas soldadas están caliente y pueden provocar quemaduras durante su manipulación. Cuando se hace un mantenimiento de la antorcha o portaelectrodos, se debe asegurar que esta esté lo suficientemente fría y espere al menos 10 minutos antes de toda intervención. El grupo de refrigeración se debe encender cuando se utilice una antorcha refrigerada por líquido para que el líquido no pueda causar quemaduras.

Es importante asegurar la zona de trabajo antes de dejarla para proteger las personas y los bienes materiales.

HUMOS DE SOLDADURA Y GAS



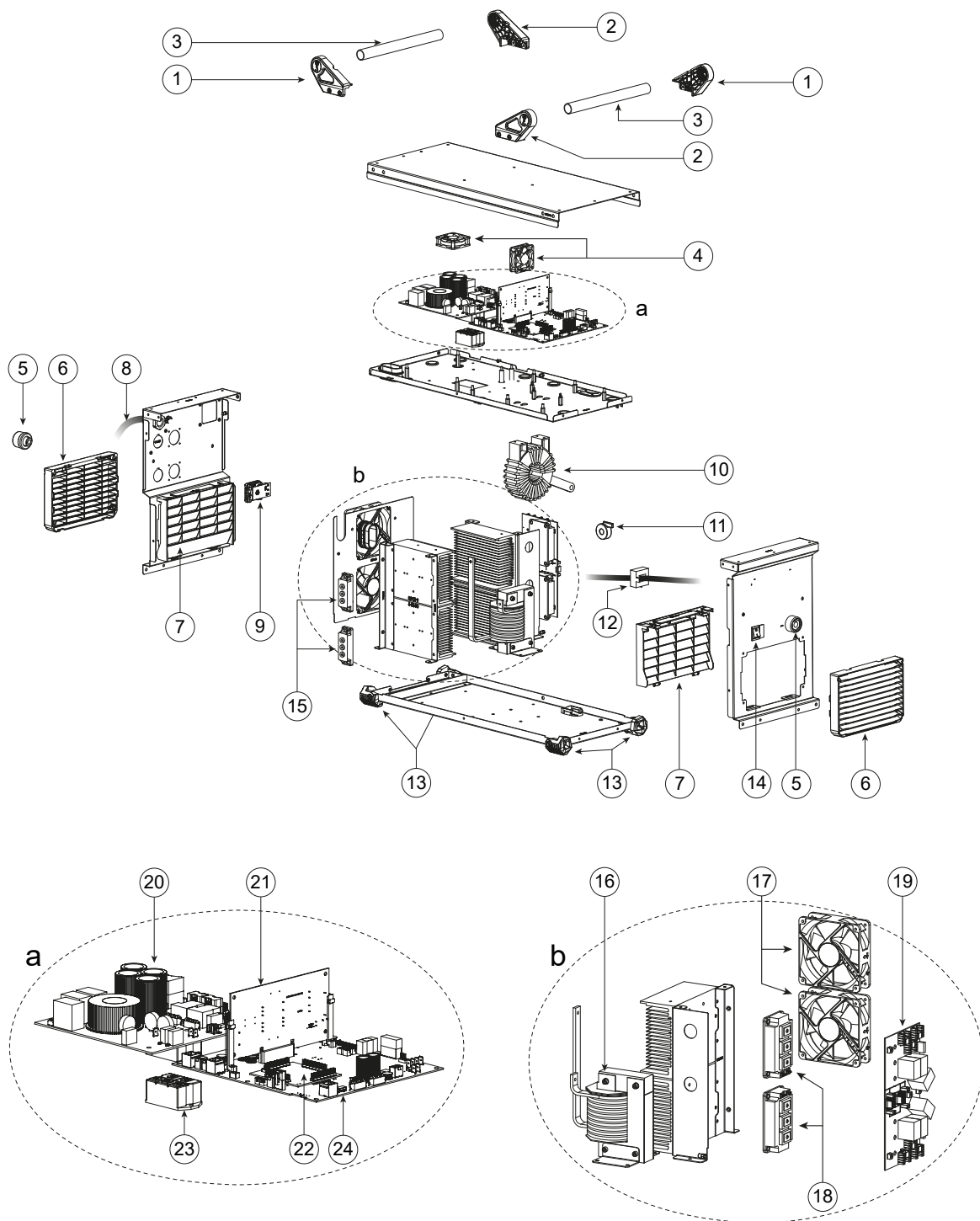
El humo, el gas y el polvo que se emite durante la soldadura son peligrosos para la salud. Hay que prever una ventilación suficiente y en ocasiones puede ser necesario un aporte de aire. Una máscara de aire puede ser una solución en caso de aireación insuficiente.

Compruebe que la aspiración es eficaz controlándola conforme a las normas de seguridad.

Atención, la soldadura en los lugares de pequeñas dimensiones requiere una vigilancia a distancia de seguridad. La soldadura de algunos materiales que contengan plomo, cadmio, zinc, mercurio o berilio pueden ser particularmente nocivos. Desengrase las piezas antes de soldarlas.

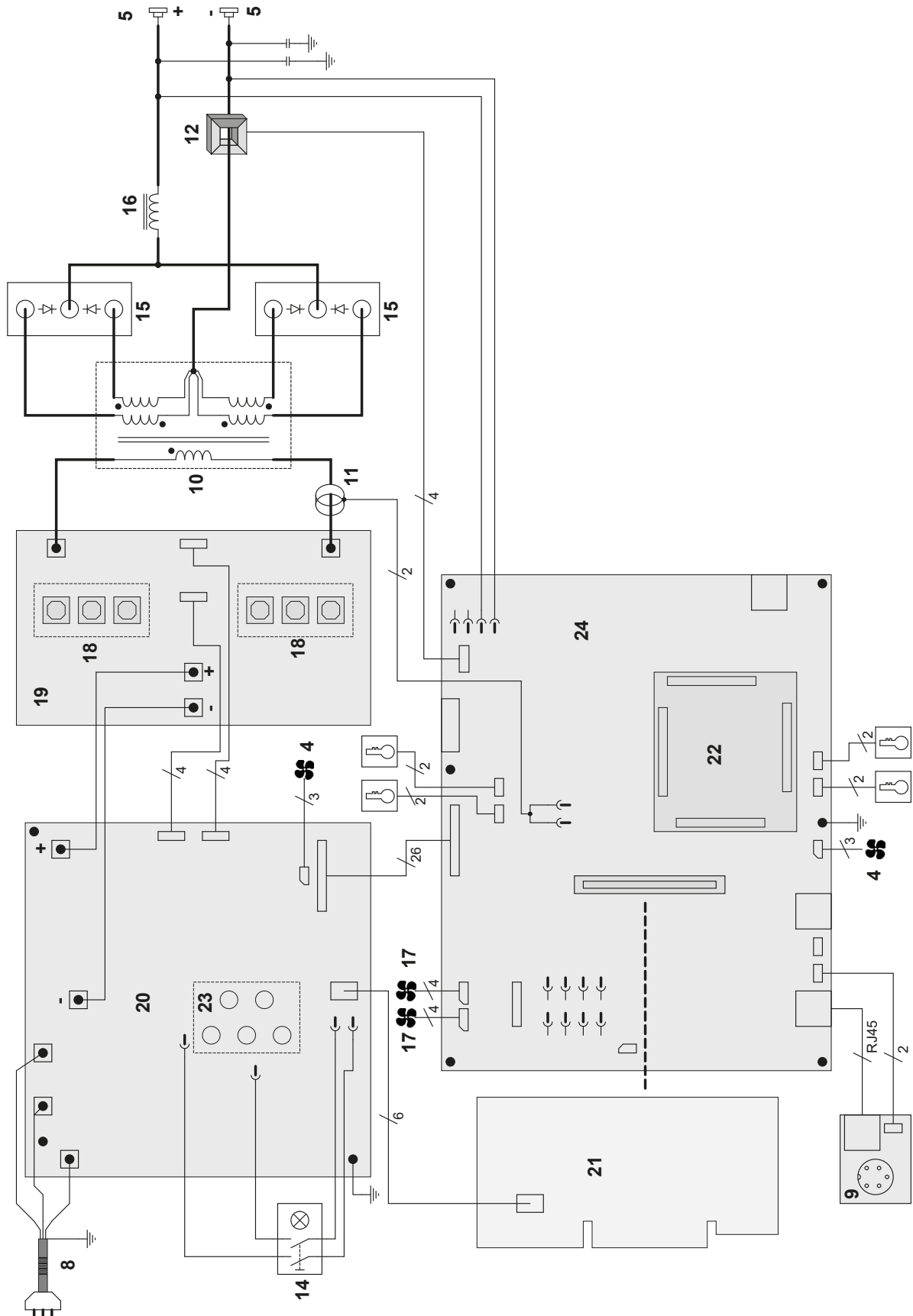
Las botellas se deben colocar en locales abiertos o bien aireados. Se deben colocar en posición vertical y sujetadas con un soporte o sobre un carro.

SPARE PARTS / ERSATZTEILE / PIEZAS DE REPUESTO / ЗАПАСНЫЕ ЧАСТИ / RESERVE ONDERDELEN / PEZZI DI RICAMBIO



		400 G	500 G
1	Flasque A / Handle support A	56190	
2	Flasque B / Handle support B	56191	
3	Poignée tube / Handle tube	90951GF	
4	Ventilateur 60x60 / Fan 60x60	51018	
5	Douille TEXAS / Texas connector	51478	
6	Grille Extérieure / Exterior Grille	56094	
7	Grille intérieure / Inner grille	56095	
8	Câble secteur / Mains cable	21589	
9	Carte adaptation faisceau de commande / Control harness adapter card	E0134C	
10	Transformateur de puissance / Power Transformer	63554	
11	Transformateur de courant / Current transformer	63832	
12	Capteur effet Hall monté sur câble / Hall effect sensor on cable	64463	
13	Patin / Feet	56120	
14	Interrupteur lumineux / Light switch	52472	
15	Module diode / Diode module	52225	
16	Self de sortie / Output self	96182	
17	Ventilateur 120x120 / Fan 120x120	51290	
18	Module IGBT / IGBT module	52210	
19	Carte pilotage IGBT / IGBT driver board	97791B	
20	Carte Entrée CEM / EMC Entry Card	E0131C	
21	Carte d'alimentation / Power supply card	E0167C	
22	Carte de contrôle / Control card	E0124C	
23	Pont redresseur triphasé / Three-phase diode bridge	52196	
24	Carte principale / Main control	E0138C	E0170C

CIRCUIT DIAGRAM / SCHALTPLAN / DIAGRAMA ELECTRICO / ЭЛЕКТРИЧЕСКАЯ СХЕМА /
ELEKTRISCHE SCHEMA / SCHEMA ELETTRICO



TECHNICAL SPECIFICATIONS / TECHNISCHE DATEN / ESPECIFICACIONES TÉCNICAS / ТЕХНИЧЕСКИЕ СПЕЦИФИКАЦИИ / TECHNISCHE GEGEVENS / SPECIFICHE TECNICHE

		400 G		
Primaire / Primary / Primär / Primario / Первичка / Primaire / Primario				
Tension d'alimentation / Power supply voltage / Versorgungsspannung / Tensión de red eléctrica / Напряжение питания / Voedingsspanning / Tensione di alimentazione	U1	400 V +/- 15%		
Fréquence secteur / Mains frequency / Netzfrequenz / Frecuencia / Частота сети / Frequentie sector / Frequenza settore		50 / 60 Hz		
Nombre de phases / Number of phases / Anzahl der Phasen / Número de fases / Количество фаз / Aantal fasen / Numero di fase		3		
Fusible disjoncteur / Fuse / Sicherung / Fusible disyuntor / Плавкий предохранитель прерывателя / Zekering hoofdschakelaar / Fusibile disgiuntore		32 A		
Courant d'alimentation effectif maximal / Maximum effective supply current / Corriente de alimentación efectiva máxima / Maximale effectieve voedingsstroom / Corrente di alimentazione effettiva massima / Maksymalny efektywny prąd zasilania	I1eff	32 A		
Courant d'alimentation maximal / Maximum supply current / Corriente de alimentación máxima / Maximale voedingsstroom / Corrente di alimentazione massima / Maksymalny prąd zasilania	I1max	34 A		
Section du cordon secteur / Mains cable section / Sectie netsnoer / Sección del cable de alimentación / Sezione del cavo di alimentazione / Odcinek przewodu zasilającego		4 x 4 mm ²		
Puissance active maximale consommée / Maximum active power consumed / Consumo máximo de energía activa / Maximale actieve verbruikte vermogen / Potenza attiva massima consumata / Maksymalny pobór mocy czynnej		16 310 W		
Consommation au ralenti / Idle consumption / Consumo en ralentizado / Stationair verbruik / Consumo al mínimo / Zużycie na biegu jalowym		28.4 W		
Rendement à I2max / Efficiency at I2max / Eficiencia a I2máx / Rendement bij I2max / Efficienza a I2max / Sprawność przy I2max		90 %		
Facteur de puissance à I2max / Power factor at I2max / Factor de potencia a I2max / Inschakelduur bij I2max / Ciclo di potenza a I2max / Współczynnik mocy przy I2max	λ	0.73		
Classe CEM / EMC class / Classe CEM / Klasse CEM / Classe CEM / Klasa EMC		A		
Secondaire / Secondary / Sekundär / Secundario / Вторичка / Secondair / Secundario		MMA (SMAW)	TIG (GTAW)	MIG-MAG (GMAW-FCAW)
Tension à vide / No load voltage / Leerlaufspannung / Tensión al vacío / Напряжение холостого хода / Nullastspanning / Tensione a vuoto	U0 (TCO)	86 V		
Nature du courant de soudage / Type of welding current / Tipo de corriente de soldadura / Type lasroom / Tipo di corrente di saldatura / Rodzaj prądu spawania		DC		
Modes de soudage / Welding modes / Modos de soldadura / Lasmodules / Modalità di saldatura / Tryby spawania		MMA, TIG, MIG-MAG		
Courant de soudage minimal / Minimum welding current / Corriente mínima de soldadura / Minimale lasroom / Corrente minima di saldatura / Minimalny prąd spawania		20 A	20 A	15 A
Courant de sortie nominal / Rate current output / nominaler Arbeitsstrom / Corriente de salida nominal / Номинальный выходной ток / Nominale uitgangsstroom / Corrente di uscita nominale	I2	20 → 400 A	20 → 400 A	15 → 400 A
Tension de sortie conventionnelle / Conventional voltage output / entsprechende Arbeitsspannung / Условные выходные напряжения / Tensión de salida convencional / Conventionele uitgangsspanning / Tensione di uscita convenzionale	U2	20.8 → 36 V	10.8 → 26 V	14.75 → 34 V
Facteur de marche à 40°C (10 min), Norme EN60974-1 / Duty cycle at 40°C (10 min), Standard EN60974-1. * Einschaltdauer @ 40°C (10 min), EN60974-1-Norm / Ciclo de trabajo a 40°C (10 min), Norma EN60974-1/ ПВ% при 40°C (10 мин), Норма EN60974-1. / Inschakelduur bij 40°C (10 min), Norm EN60974-1, Ciclo di lavoro a 40°C (10 min), Norma EN60974-1.	I _{max}	60 %		
	60 %	400 A	400 A	400 A
	100 %	380 A	-	-
Température de fonctionnement / Functioning temperature / Betriebstemperatur / Temperatura de funcionamiento / Рабочая температура / Gebruikstemperatuur / Temperatura di funzionamento		-10°C → +40°C		
Température de stockage / Storage temperature / Lagertemperatur / Temperatura de almacenaje / Температура хранения / Bewaarstemperatuur / Temperatura di stoccaggio		-20°C → +55°C		
Degré de protection / Protection level / Schutzart / Grado de protección / Степень защиты / Beschermingsklasse / Grado di protezione		IP23		
Classe d'isolation minimale des enroulements / Minimum coil insulation class / Clase mínima de aislamiento del bobinado / Minimale isolatieklasse omwikkelingen / Classe minima di isolamento degli avvolgimenti / Minimalna klasa izolacji okablowania		B		
Dimensions (Lxlxh) / Dimensions (LxWxH) / Abmessungen (Lxbxt) / Dimensiones (Lxlxh) / Размеры (ДхШхВ) / Afmetingen (Lxlxh) / Dimensioni (Lxlxh)		75 x 30 x 49 cm		
Poids / Weight / Gewicht / Bec / Peso / Gewicht / Peso		37 kg		

		500 G		
Primaire / Primary / Primär / Primario / Первичка / Primaire / Primario				
Tension d'alimentation / Power supply voltage / Versorgungsspannung / Tensión de red eléctrica / Напряжение питания / Voedingsspanning / Tensione di alimentazione	U1	400 V +/- 15%		
Fréquence secteur / Mains frequency / Netzfrequenz / Frecuencia / Частота сети / Frequentie sector / Frequenza settore		50 / 60 Hz		
Nombre de phases / Number of phases / Anzahl der Phasen / Número de fases / Количество фаз / Aantal fasen / Numero di fase		3		
Fusible disjoncteur / Fuse / Sicherung / Fusible disyuntor / Плавкий предохранитель прерывателя / Zekering hoofdschakelaar / Fusibile disgiuntore		32 A		
Courant d'alimentation effectif maximal / Maximum effective supply current / Corriente de alimentación efectiva máxima / Maximale effectieve voedingsstroom / Corrente di alimentazione effettiva massima / Maksymalny efektywny prąd zasilania	I1eff	32 A		
Courant d'alimentation maximal / Maximum supply current / Corriente de alimentación máxima / Maximale voedingsstroom / Corrente di alimentazione massima / Maksymalny prąd zasilania	I1max	44 A		
Section du cordon secteur / Mains cable section / Sectie netsnoer / Sección del cable de alimentación / Sezione del cavo di alimentazione / Odcinek przewodu zasilającego		4 x 4 mm ²		
Puissance active maximale consommée / Maximum active power consumed / Consumo máximo de energía activa / Maximale actieve verbruikte vermogen / Potenza attiva massima consumata / Maksymalny pobór mocy czynnej		22 650 W		
Consommation au ralenti / Idle consumption / Consumo en ralentizado / Stationair verbruik / Consumo al mínimo / Zużycie na biegu jalowym		28.4 W		
Rendement à I2max / Efficiency at I2max / Eficiencia a I2máx / Rendement bij I2max / Efficienza a I2max / Sprawność przy I2max		90 %		
Facteur de puissance à I2max / Power factor at I2max / Factor de potencia a I2max / Inschakelduur bij I2max / Ciclo di potenza a I2max / Współczynnik mocy przy I2max	λ	0.73		
Classe CEM / EMC class / Classe CEM / Klasse CEM / Classe CEM / Klasa EMC		A		
Secondaire / Secondary / Sekundär / Secundario / Вторичка / Secondair / Secundario		MMA (SMAW)	TIG (GTAW)	MIG-MAG (GMAW-FCAW)
Tension à vide / No load voltage / Leerlaufspannung / Tensión al vacío / Напряжение холостого хода / Nullastspanning / Tensione a vuoto	U0 (TCO)	86 V		
Nature du courant de soudage / Type of welding current / Tipo de corriente de soldadura / Type lasstroom / Tipo di corrente di saldatura / Rodzaj prądu spawania		DC		
Modes de soudage / Welding modes / Modos de soldadura / Lasmodules / Modalità di saldatura / Tryby spawania		MMA, TIG, MIG-MAG		
Courant de soudage minimal / Minimum welding current / Corriente mínima de soldadura / Minimale lasstroom / Corrente minima di saldatura / Minimalny prąd spawania		20 A	20 A	15 A
Courant de sortie nominal / Rate current output / nominaler Arbeitsstrom / Corriente de salida nominal / Номинальный выходной ток / Nominale uitgangsstroom / Corrente di uscita nominale	I2	20 → 500 A	20 → 500 A	15 → 500 A
Tension de sortie conventionnelle / Conventional voltage output / entsprechende Arbeitsspannung / Условные выходные напряжения / Tensión de salida convencional / Conventionele uitgangsspanning / Tensione di uscita convenzionale	U2	20.8 → 40 V	10.8 → 30 V	14.75 → 39 V
Facteur de marche à 40°C (10 min), Norme EN60974-1 / Duty cycle at 40°C (10 min), Standard EN60974-1. * Einschaltdauer @ 40°C (10 min), EN60974-1-Norm / Ciclo de trabajo a 40°C (10 min), Norma EN60974-1/ ПВ% при 40°C (10 мин), Norma EN60974-1. / Inschakelduur bij 40°C (10 min), Norm EN60974-1, Ciclo di lavoro a 40°C (10 min), Norma EN60974-1.	I _{max}	60%		
	60 %	500 A		
	100 %	380 A	400 A	400 A
Température de fonctionnement / Functioning temperature / Betriebstemperatur / Temperatura de funcionamiento / Рабочая температура / Gebruikstemperatuur / Temperatura di funzionamento		-10°C → +40°C		
Température de stockage / Storage temperature / Lagertemperatur / Temperatura de almacenaje / Температура хранения / Bewaartemperatuur / Temperatura di stoccaggio		-20°C → +55°C		
Degré de protection / Protection level / Schutzart / Grado de protección / Степень защиты / Beschermingsklasse / Grado di protezione		IP23		
Classe d'isolation minimale des enroulements / Minimum coil insulation class / Clase mínima de aislamiento del bobinado / Minimale isolatieklasse omwikkelingen / Classe minima di isolamento degli avvolgimenti / Minimalna klasa izolacji okablowania		B		
Dimensions (Lxlxh) / Dimensions (LxWxH) / Abmessungen (Lxbxt) / Dimensiones (Lxlxh) / Размеры (ДхШхВ) / Afmetingen (Lxlxh) / Dimensioni (Lxlxh)		75 x 30 x 49 cm		
Poids / Weight / Gewicht / Bec / Peso / Gewicht / Peso		37 kg		

*Les facteurs de marche sont réalisés selon la norme EN60974-1 à 40°C et sur un cycle de 10 min. Lors d'utilisation intensive (supérieur au facteur de marche) la protection thermique peut s'enclencher, dans ce cas, l'arc s'éteint et le témoin \downarrow s'allume. Laissez l'appareil alimenté pour permettre son refroidissement jusqu'à annulation de la protection. La source de courant décrit une caractéristique de sortie de type tombante. La source de courant décrit une caractéristique de sortie de type plate. Dans certains pays, U0 est appelé TCO.

*The duty cycles are measured according to standard EN60974-1 at 40°C and on a 10 min cycle. While under intensive use (> to duty cycle) the thermal protection can turn on, in that case, the arc switches off and the indicator \downarrow switches on. Keep the machine's power supply on to enable cooling until thermal protection cancellation. The welding power source describes an external drooping characteristic. The power supply shows a flat output pattern. In some countries, U0 is called TCO.

* Einschaltdauer gemäß EN60974-1 (10 Minuten - 40°C). Bei sehr intensivem Gebrauch (>Einschaltdauer) kann der Thermoschutz ausgelöst werden. In diesem Fall wird der Lichtbogen abgeschaltet und die entsprechende Warnung \downarrow erscheint auf der Anzeige. Das Gerät zum Abkühlen nicht ausschalten und laufen lassen bis das Gerät wieder bereit ist. Das Gerät entspricht in seiner Charakteristik einer Spannungsquelle mit fallender Kennlinie. Die Stromquelle hat eine flache Kennliniencharakteristik. In einigen Ländern wird U0 als TCO bezeichnet.

*Los ciclos de trabajo están realizados en acuerdo con la norma EN60974-1 a 40°C y sobre un ciclo de diez minutos. Durante un uso intensivo (superior al ciclo de trabajo), se puede activar la protección térmica. En este caso, el arco se apaga y el indicador \downarrow se enciende. Deje el aparato conectado para permitir que se enfrie hasta que se anule la protección. La fuente de corriente de soldadura posee una salida de tipo corriente constante. La fuente de corriente describe una característica de salida de tipo plano. En algunos países, U0 se llama TCO.










*ПВ% указаны по норме EN60974-1 при 40°C и для 10-минутного цикла. При интенсивном использовании (> ПВ%) может включиться тепловая защита. В этом случае дуга погаснет и загорится индикатор \downarrow . Оставьте аппарат подключенным к питанию, чтобы он остыл до полной отмены защиты. Аппарат описывает падающую характеристику на выходе. Источник тока имеет выходную характеристику типа «плоская характеристика». В некоторых странах U0 называется TCO.

*De inschakelduur is gemeten volgens de norm EN60974-1 bij een temperatuur van 40°C en bij een cyclus van 10 minuten. Bij intensief gebruik (superieur aan de inschakelduur) kan de thermische beveiliging zich in werking stellen. In dat geval gaat de boog uit en gaat het beveiligingslampje \downarrow gaan branden. Laat het apparaat aan de netspanning staan om het te laten afkoelen, totdat de beveiliging afslaat. Het apparaat heeft een uitgaande dalende eigenschap. De stroombron heeft een vlakke uitgangskarakteristiek. In sommige landen wordt U0 TCO genoemd.

*I cicli di lavoro sono realizzati secondo la norma EN60974-1 a 40°C e su un ciclo di 10 min. Durante l'uso intensivo (> al ciclo di lavoro) la protezione termica può attivarsi, in questo caso, l'arco si spegne e la spia \downarrow si illumina. Lasciate il dispositivo collegato per permetterne il raffreddamento fino all'annullamento della protezione. La fonte di corrente di saldatura presenta una caratteristica di uscita spiovente. La fonte di corrente descrive una caratteristica di uscita di tipo piatto. In alcuni Paesi, U0 viene chiamata TCO.

SYMBOLS / ZEICHENERKLÄRUNG / ICONOS / СИМВОЛЫ / PICTOGRAMMEN / ICONE

	FR Attention ! Lire le manuel d'instruction avant utilisation. EN Warning ! Read the user manual before use. DE ACHTUNG ! Lesen Sie diese Anleitung sorgfältig durch vor Inbetriebnahme des Geräts. ES ¡Atención! Lea el manual de instrucciones antes de su uso. RU Внимание! Прочтите инструкцию перед использованием. NL Let op! Lees aandachtig de handleiding. IT Attenzione! Leggere il manuale d'istruzioni prima dell'uso. PL Uwaga! Przed użyciem należy uważnie przeczytać instrukcję obsługi.
	FR Symbole de la notice EN User manual symbol DE Symbol in der Bedienungsanleitung ES Símbolo del manual RU Символы, использующиеся в инструкции NL Symbol handleiding IT Simbolo del manuale PL Symbol ulotki
	FR Source de courant de technologie onduleur délivrant un courant continu. EN Undulating current technology based source delivering direct current. DE Invertergleichstromquelle. ES Fuente de corriente de tecnología ondulador que libera corriente continua. RU Источник тока с технологией преобразователя, выдающий постоянный ток. NL Stroombron met UPS technologie, levert gelijkstroom. IT Fonte di corrente con tecnologia inverter che rilascia una corrente continua. PT Fonte de energia da tecnologia do inversor que fornece uma corrente contínua. PL Źródło prądu technologii falownika dostarczającego prąd stały.
	FR Soudage à l'électrode enrobée - MMA (Manual Metal Arc) EN MMA welding (Manual Metal Arc) DE Schweißen mit umhüllter Elektrode (E-Handschiessen) ES Soldadura con electrodo revestido (MMA - Manual Metal Arc) RU Сварка электродом с обмазкой: MMA (Manual Metal Arc) NL Lassen met beklede elektrode - MMA (Manual Metal Arc) IT Saldatura all'elettrodo rivestito - MMA (Manual Metal Arc) PT Soldadura a eletrodo revestido (MMA - Manual Metal Arc) PL Spawanie elektrodami otulonymi (MMA - Manual Metal Arc)
	FR Soudage TIG (Tungsten Inert Gaz) EN TIG welding (Tungsten Inert Gas) DE TIG-(WIG-)Schweißen (Tungsten (Wolfram) Inert Gas) ES Soldadura TIG (Tungsten Inert Gaz) RU Сварка TIG (Tungsten Inert Gaz) NL TIG lassen (Tungsten Inert Gaz) IT Saldatura TIG (Tungsten Inert Gaz) PT Soldadura TIG (Tungsten Inert Gaz) PL Spawanie TIG (Wolfram Gazu Obojętnego)
	FR Soudage à MIG / MAG EN MIG / MAG welding DE MIG / MAG-Schweißen ES Soldadura MIG / MAG RU Сварка MIG / MAG NL MIG/ MAG lassen IT Saldatura MIG / MAG PT Soldagem MIG / MAG PL Spawanie MIG / MAG
	FR Convient au soudage dans un environnement avec risque accru de choc électrique. La source de courant elle-même ne doit toutefois pas être placée dans de tels locaux. EN Suitable for welding in an environment with an increased risk of electric shock. However this a machine should not be placed in such an environment. DE Geeignet für Schweißarbeiten im Bereich mit erhöhten elektrischen Risiken. ES Adaptado para soldadura en lugar con riesgo de choque eléctrico. Sin embargo, la fuente eléctrica no debe estar presente en dichos lugares. RU Подходит для сварки в среде с повышенным риском удара током. В этом случае источник тока не должен находиться в том же самом помещении. NL Geschikt voor het lassen in een ruimte met verhoogd risico op elektrische schokken. De voedingsbron zelf moet echter niet in dergelijke ruimte worden geplaatst. IT Conviene alla saldatura in un ambiente a grande rischio di scosse elettriche. L'origine della corrente non deve essere localizzata in tale posto. PL Nadaje się do spawania w środowisku o zwiększonym ryzyku porażenia prądem. Samo źródło prądu nie może jednak być umieszczone w tego typu pomieszczeniach.
	FR Courant de soudage continu EN Direct welding current DE Gleichschweißstrom ES Corriente de soldadura continua. RU Постоянный сварочный ток NL Gelijkstroom IT Corrente di saldatura continuo PL Stały prąd spawania.
U0	FR Tension assignée à vide EN Open circuit voltage DE Leerlaufspannung ES Tensión asignada en vacío RU Номинальное напряжение холостого хода NL Nullaastspanning IT Tensione nominale a vuoto PL Znamionowe napięcie próżniowe
X(40°C)	FR Facteur de marche selon la norme EN60974-1 (10 minutes - 40°C). EN Duty cycle according to standard EN 60974-1 (10 minutes - 40°C). DE Einschaltdauer: 10 min - 40°C, richtlinienkonform EN60974-1. ES Ciclo de trabajo según la norma EN60974-1 (10 minutos - 40°C). RU ПДВ% согласно норме EN 60974-1 (10 минут - 40°C). NL Inschakelduur volgens de norm EN60974-1 (10 minuten - 40°C). IT Ciclo di lavoro conforme alla norma EN60974-1 (10 minuti - 40°C). PL Cykl pracy zgodny z normą EN60974-1 (10 minut - 40 ° C)
I2	FR Courant de soudage conventionnel correspondant EN Corresponding conventional welding current DE Entsprechender Schweißstrom ES Corriente de soldadura convencional correspondiente. RU Соответствующий номинальный сварочный ток NL Corresponderende conventionele lasstroom IT Corrente di saldatura convenzionale. PL Odpowiedni konwencjonalny prąd spawania
A	FR Ampères EN Amperes DE Ampere ES Amperios RU Амперы NL Ampère IT Amper
U2	FR Tensions conventionnelles en charges correspondantes EN Conventional voltage in corresponding loads. DE Entsprechende Arbeitsspannung ES Tensiones convencionales en cargas correspondientes. RU Номинальные напряжения при соответствующих нагрузках. NL Conventionele spanning in corresponderende belasting IT Tensioni convenzionali in cariche corrispondenti PL Ampery
V	FR Volt EN Volt DE Volt ES Voltio RU Вольт NL Volt IT Volt PL Volt
Hz	FR Hertz EN Hertz DE Hertz ES Hercios RU Герц NL Hertz IT Hertz PL Herc
	FR Alimentation électrique triphasée 50 ou 60Hz EN Three-phase power supply 50 or 60Hz DE Dreiphasige Netzversorgung mit 50 oder 60Hz ES Alimentación eléctrica trifásica 50 o 60Hz RU Трёхфазное электропитание 50 или 60Гц NL Driefasen elektrische voeding 50Hz of 60Hz. IT Alimentazione elettrica trifase 50 o 60Hz PL Trójfazowe zasilanie elektryczne 50 lub 60Hz
U1	FR Tension assignée d'alimentation EN Assigned voltage DE Netzspannung ES Tensión asignada de alimentación eléctrica. RU Номинальное напряжение питания NL Nominale voedingsspanning IT Tensione nominale d'alimentazione PL Napięcie znamionowe zasilania.
I1max	FR Courant d'alimentation assigné maximal (valeur efficace) EN Maximum rated power supply current (effective value). DE Maximaler Versorgungsstrom ES Corriente de alimentación eléctrica asignada máxima (valor eficaz). RU Максимальный сетевой ток (эффективное значение) NL Maximale nominale voedingsstroom (effectieve waarde) IT Corrente d'alimentazione nominale massima (valore effettivo) PL Maksymalny prąd znamionowy zasilania (wartość skuteczna).
I1eff	FR Courant d'alimentation effectif maximal EN Maximum effective power supply current. DE Maximaler effektiver Versorgungsstrom ES Corriente de alimentación eléctrica máxima. RU Максимальный эффективный сетевой ток NL Maximale effectieve voedingsstroom IT Corrente effettivo massimo di alimentazione PL Maksymalny skuteczny prąd zasilania
	FR Matériel conforme aux Directives européennes. La déclaration UE de conformité est disponible sur notre site (voir à la page de couverture). EN Device complies with european directives. The EU declaration of conformity is available on our website (see cover page). DE Gerät entspricht europäischen Richtlinien. Die Konformitätserklärung finden Sie auf unsere Webseite. ES Aparato conforme a las directivas europeas. La declaración de conformidad UE está disponible en nuestra página web (dirección en la portada). RU Устройство соответствует директивам Евросоюза. Декларация о соответствии доступна для просмотра на нашем сайте (ссылка на обложке). NL Apparaat in overeenstemming met de Europese richtlijnen. De verklaring van overeenstemming is te downloaden op onze website (adres vermeld op de omslag). IT Materiale in conformità alle Direttive europee. La dichiarazione di conformità è disponibile sul nostro sito (vedere sulla copertina). PL Urządzenie jest zgodne z dyrektywami europejskimi. Deklaracja Zgodności UE jest dostępna na naszej stronie internetowej (patrz strona tytułowa).
	FR Matériel conforme aux exigences britanniques. La déclaration de conformité britannique est disponible sur notre site (voir à la page de couverture). EN Equipment in compliance with British requirements. The British Declaration of Conformity is available on our website (see home page). DE Das Gerät entspricht den britischen Richtlinien und Normen. Die Konformitätserklärung für Grossbritannien ist auf unserer Internetseite verfügbar (siehe Titelseite). ES Equipo conforme a los requisitos británicos. La Declaración de Conformidad Británica está disponible en nuestra página web (véase la portada). RU Материал соответствует требованиям Великобритании. Заявление о соответствии для Великобритании доступно на нашем веб-сайте (см. главную страницу). NL Materiaal conform aan de Britse eisen. De Britse verklaring van overeenkomst is beschikbaar op onze website (zie omslagpagina). IT Materiale conforme alla esigenze britanniche. La dichiarazione di conformità britannica è disponibile sul nostro sito (vedere pagina di copertina). PL Wyposażenie spełnia wymogi brytyjskie. Brytyjska Deklaracja Zgodności jest dostępna na naszej stronie internetowej (patrz strona tytułowa).

	<p>FR Matériel conforme aux normes Marocaines. La déclaration C_p (CMIM) de conformité est disponible sur notre site (voir à la page de couverture). EN Equipment in conformity with Moroccan standards. The declaration C_p (CMIM) of conformity is available on our website (see cover page). DE Das Gerät entspricht die marokkanischen Standards. Die Konformitätserklärung C_p (CMIM) ist auf unserer Webseite verfügbar (siehe Titelseite). ES Equipamiento conforme a las normas marroquíes. La declaración de conformidad C_p (CMIM) está disponible en nuestra página web (ver página de portada). RU Товар соответствует нормам Марокко. Декларация C_p (CMIM) доступна для скачивания на нашем сайте (см на титульной странице). NL Dit materiaal voldoet aan de Marokkaanse normen. De verklaring C_p (CMIM) van overeenstemming is beschikbaar op onze internet site (vermeld op de omslag). IT Materiale conforme alle normative marocchine. La dichiarazione C_p (CMIM) di conformità è disponibile sul nostro sito (vedi scheda del prodotto). PL Urządzenie zgodne ze standardami marokańskimi . Deklaracja zgodności C_p (CMIM) jest dostępna na naszej stronie internetowej (patrz strona tytułowa).</p>
<p>IEC 60974-1 IEC 60974-10 Class A</p>	<p>FR L'appareil respecte la norme EN60974-1 et EN 60971-10 appareil de classe A. EN The device is compliant with standard EN60974-1 and EN60971-10 class A device. DE Das Gerät erfüllt die Norm EN 60974-1 und EN 60971-10 der Geräteklasse A ES El aparato se ajusta a la norma EN60974-1 y EN 60971-10, aparato de clase A. RU Аппарат соответствует нормам EN60974-1 и EN60971-10 аппарат класса А. NL Dit klasse A apparaat voldoet aan de EN60974-1 en EN60971-10 normen. IT Il dispositivo rispetta la norma EN60974-1 e EN 60971-10 dispositivo classe A. PL Urządzenie jest zgodne z normami EN60974-1 i EN60971-10 dla urządzeń klasy A</p>
	<p>FR Ce matériel faisant l'objet d'une collecte sélective selon la directive européenne 2012/19/UE. Ne pas jeter dans une poubelle domestique ! EN This hardware is subject to waste collection according to the European directives 2012/19/EU. Do not throw out in a domestic bin ! DE Für die Entsorgung Ihres Gerätes gelten besondere Bestimmungen (sondermüll) gemäß europäische Bestimmung 2012/19/EU. Es darf nicht mit dem Hausmüll entsorgt werden! ES Este material requiere una recogida de basuras selectiva según la directiva europea 2012/19/UE. ¡No tirar este producto a la basura doméstica! RU Это оборудование подлежит переработке согласно директиве Евросоюза 2012/19/UE. Не выбрасывать в общий мусоросборник! NL Afzonderlijke inzameling vereist volgens de Europese richtlijn 2012/19/UE. Gooi het apparaat niet bij het huishoudelijk afval ! IT Questo materiale è soggetto alla raccolta differenziata seguendo la direttiva europea 2012/19/UE. Non smaltire con i rifiuti domestici! PL Urządzenie to podlega selektywnej zbiórce odpadów zgodnie z dyrektywą UE 2012/19/UE. Nie wyrzucać do zwykłego kosza!</p>
	<p>FR Produit recyclable qui relève d'une consigne de tri. EN This product should be recycled appropriately DE Recyclingprodukt, das gesondert entsorgt werden muss. ES Producto reciclable que requiere una separación determinada. RU Этот аппарат подлежит утилизации. NL Product recyclebaar, niet bij het huishoudelijk afval gooien IT Prodotto riciclabile soggetto a raccolta differenziata. PL Produkt nadaje się do recyklingu zgodnie z instrukcjami sortowni.</p>
	<p>FR Marque de conformité EAC (Communauté économique Eurasienne) EN EAEC Conformity marking (Eurasian Economic Community). DE EAC-Konformitätszeichen (Eurasische Wirtschaftsgemeinschaft) ES Marca de conformidad EAC (Comunidad económica euroasiática). RU Знак соответствия EAC (Евразийское экономическое сообщество) NL EAC (Euraziatische Economische Gemeenschap) merkteken van overeenstemming IT Marca di conformità EAC (Comunità Economica Eurasistica) PL Znak zgodności EAC (Euroazjatyckiej wspólnoty Gospodarczej)</p>
	<p>FR Information sur la température (protection thermique) EN Temperature information (thermal protection) DE Information zur Temperatur (Thermoschutz) ES Información sobre la temperatura (protección térmica) RU Информация по температуре (термозащита). NL Informatie over de temperatuur (thermische beveiliging) IT Informazioni sulla temperatura (protezione termiche) PL Informacja o temperaturze (ochrona termiczna)</p>
	<p>FR Commande à distance EN Remote control DE Fernregler ES Control a distancia RU Дистанционное управление NL Afstandsbediening. IT Telecomando a distanza PT Controlo remoto PL Zdalne sterowanie</p>
 <p>START</p>	<p>FR Marche (mise sous tension) EN On (power on) DE Ein (Einschalten) ES On (encendido) RU Вкл (включение) NL Aan (stroom aan) IT On (accensione) PT Ligar (ligar) PL On (accensione) DA On (tændt)</p>
 <p>STOP</p>	<p>FR Arrêt (mise hors tension) EN Off (power off) DE Aus (Ausschalten) ES Off (apagado) RU Выкл (выключение) NL Uit (stroom uit) IT Off (spegnimento) PT Desligar (desligar) PL Off (spegnimento) DA Off (slukket)</p>
 <p>SECURITY</p>	<p>FR Le dispositif de déconnexion de sécurité est constitué par la prise secteur en coordination avec l'installation électrique domestique. L'utilisateur doit s'assurer de l'accessibilité de la prise EN The safety disconnection device is a combination of the power socket in coordination with the electrical installation. The user has to make sure that the plug can be reached. DE Die Stromunterbrechung erfolgt durch Trennen des Netzsteckers vom häuslichen Stromnetz. Der Gerätenwender sollte den freien Zugang zum Netzstecker immer gewährleisten. ES El dispositivo de desconexión de seguridad se constituye de la toma de la red eléctrica en coordinación con la instalación eléctrica doméstica. El usuario debe asegurarse de la accesibilidad de la toma de corriente. RU Устройство безопасности отключения состоит из вилки, соответствующей домашней электросети. Пользователь должен обеспечить доступ к вилке. NL De veiligheidsontkoppeling van het apparaat bestaat uit de stekker samen met de elektrische installatie. De gebruiker moet zich ervan verzekeren dat de elektrische aansluitingen goed toegankelijk zijn. IT Il dispositivo di scollegamento di sicurezza è costituito dalla presa in coordinazione con l'installazione elettrica domestica. L'utente deve assicurarsi dell'accessibilità della presa PT O dispositivo de desconexão de segurança é constituído pela tomada de rede em coordenação com a instalação elétrica doméstica. O usuário deve garantir a acessibilidade da tomada. PL Rozłącznik bezpiecznikowy składa się z wtyczki sieciowej skoordynowanej z domową instalacją elektryczną. Użytkownik musi upewnić się, że ma odpowiedni dostęp do gniazdka.</p>

**GYS France**

Siège social / Headquarter
1, rue de la Croix des Landes - CS 54159
53941 Saint-berthevin Cedex
France

www.gys.fr
+33 2 43 01 23 60
service.client@gys.fr

GYS Italia

Filiale / Filiale
Vega – Parco Scientifico Tecnologico di
Venezia
Via delle Industrie, 25/4
30175 Marghera - VE
Italia

www.gys-welding.com
+39 041 53 21 565
italia@gys.fr

GYS UK

Filiale / Subsidiary
Unit 3
Great Central Way
CV21 3XH - Rugby - Warwickshire
United Kingdom

www.gys-welding.com
+44 1926 338 609
uk@gys.fr

GYS China

Filiale / 子公司
6666 Songze Road,
Qingpu District
201706 Shanghai
China

www.gys-china.com.cn
+86 6221 4461
contact@gys-china.com.cn

GYS GmbH

Filiale / Niederlassung
Professor-Wieler-Straße 11
52070 Aachen
Deutschland

www.gys-schweissen.com
+49 241 / 189-23-710
aachen@gys.fr

GYS Iberica

Filiale / Filial
Avenida Pirineos 31, local 9
28703 San Sebastian de los reyes
España

www.gys-welding.com
+34 917.409.790
iberica@gys.fr