



USER AND MAINTENANCE BOOK

en

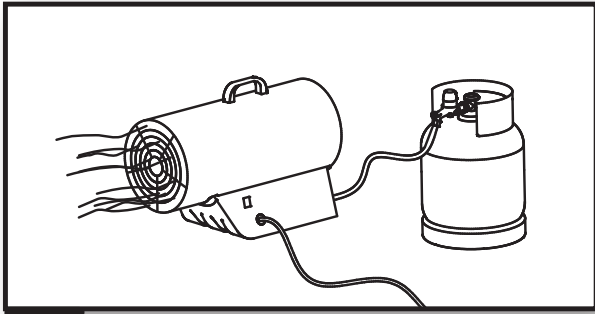
LIBRETTO USO E MANUTENZIONE

it

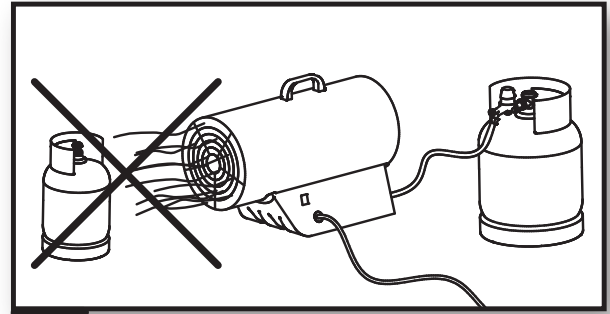


BLP 103M DV

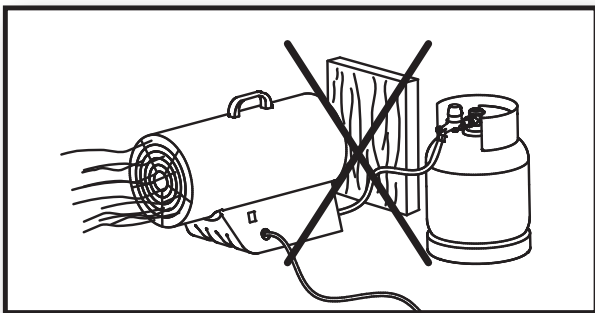
FIGURES - FIGURE



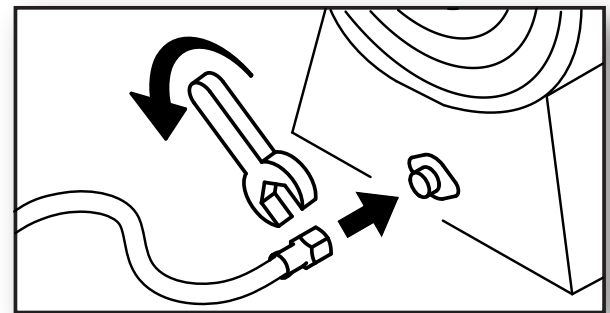
1



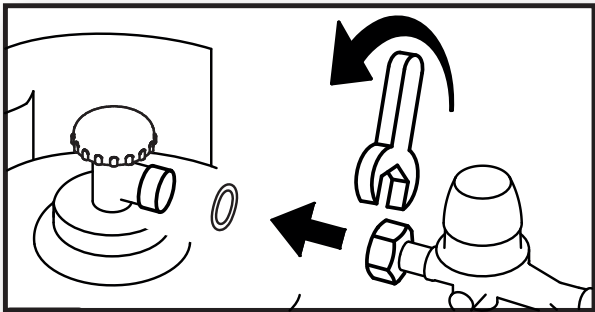
2



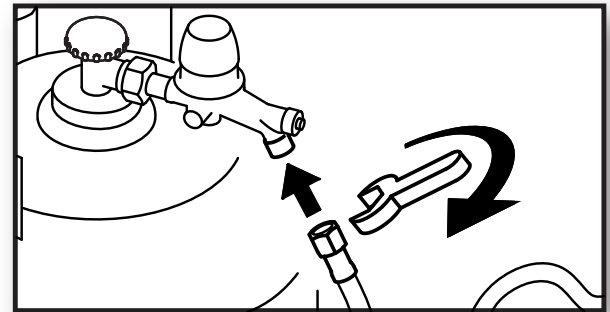
3



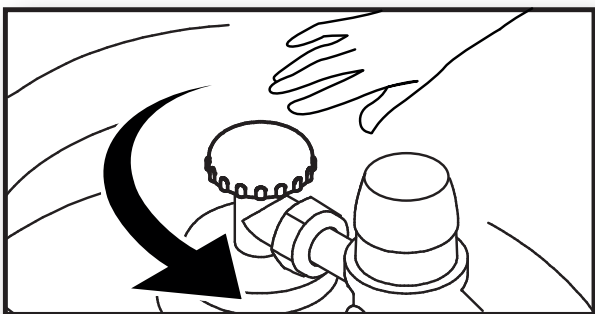
4



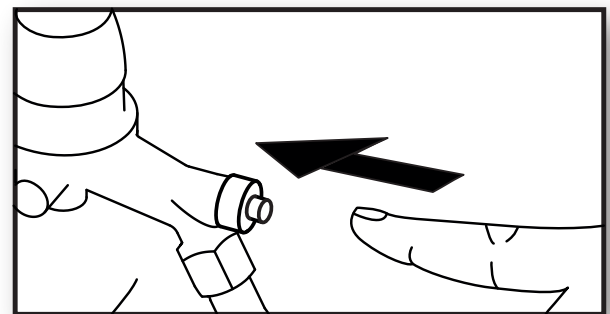
5



6



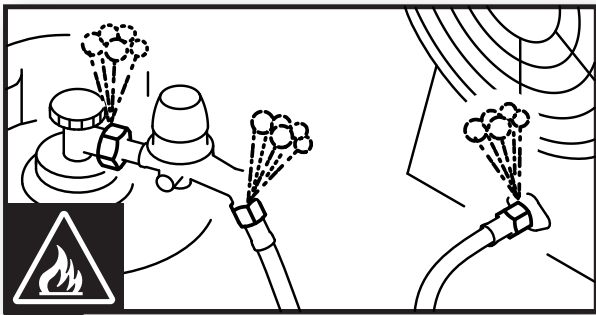
7



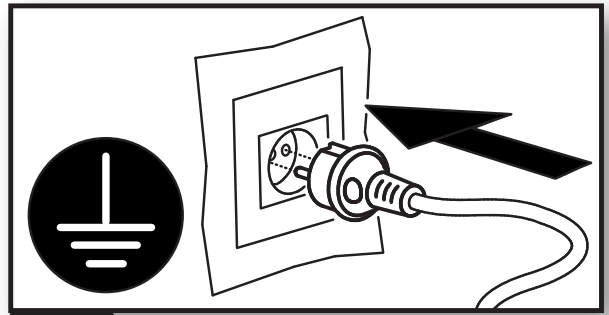
8

FIGURES - FIGURE

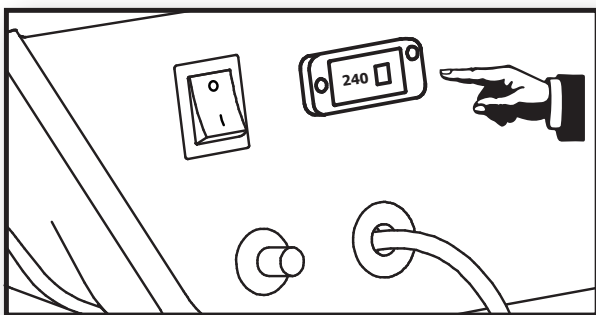
en
it



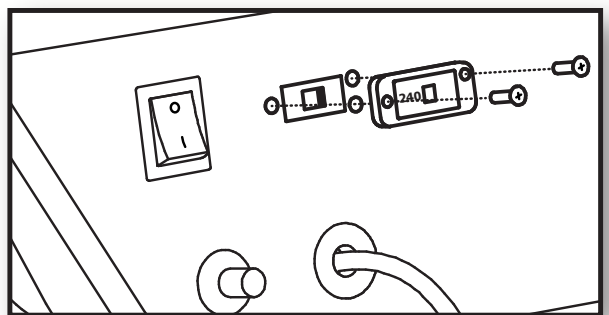
9



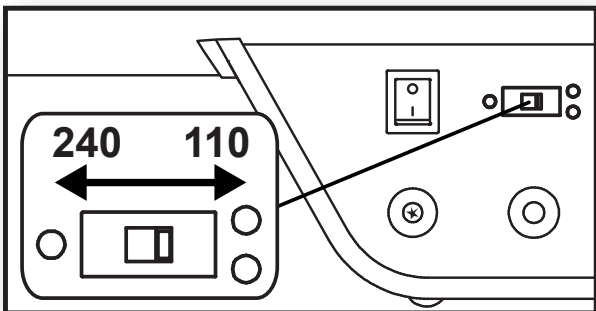
10



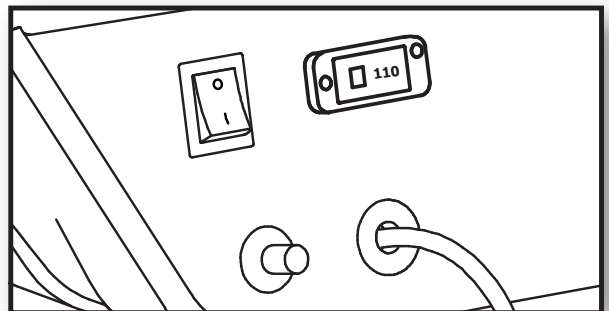
11



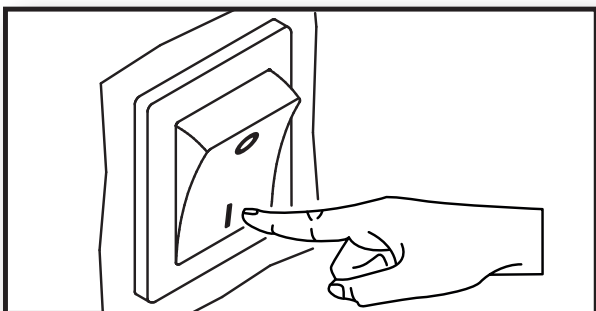
12



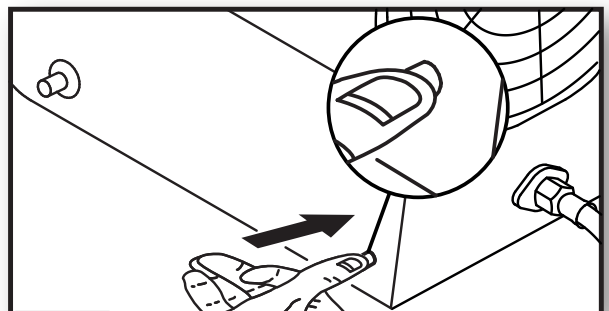
13



14

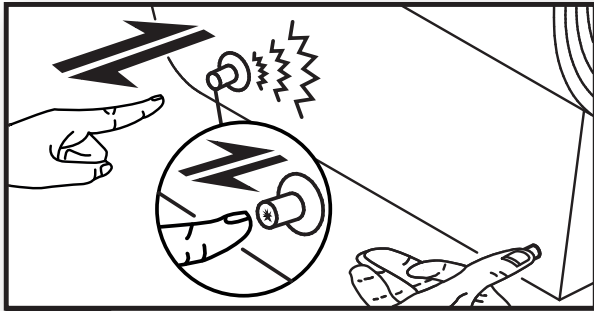


15

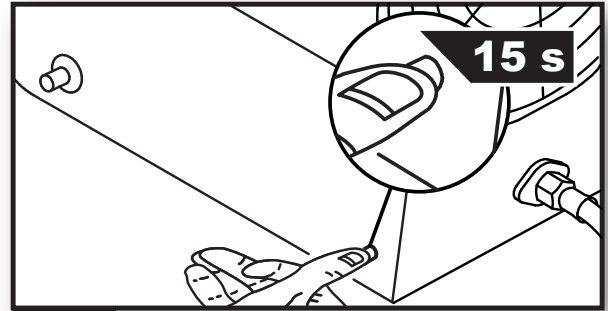


16

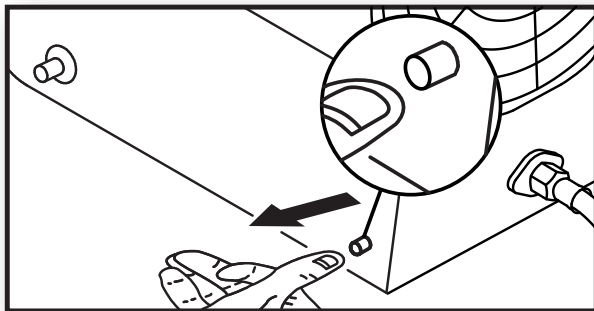
FIGURES - FIGURE



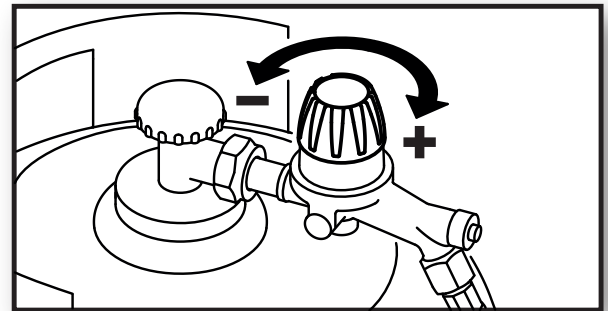
17



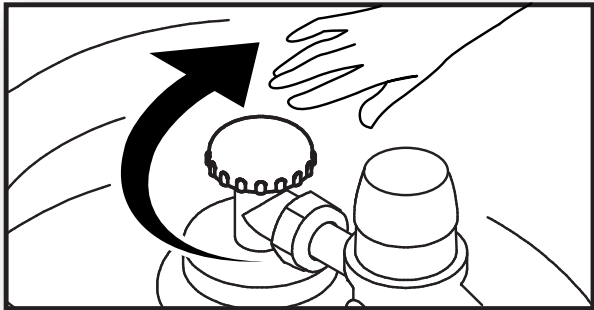
18



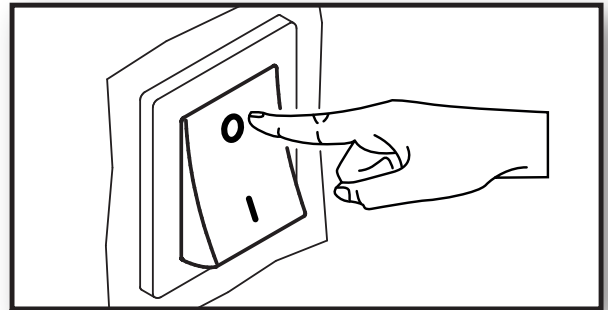
19



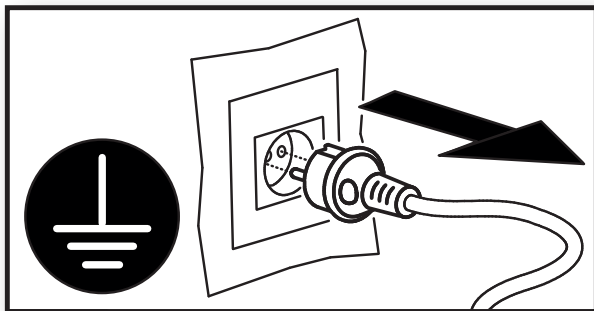
20



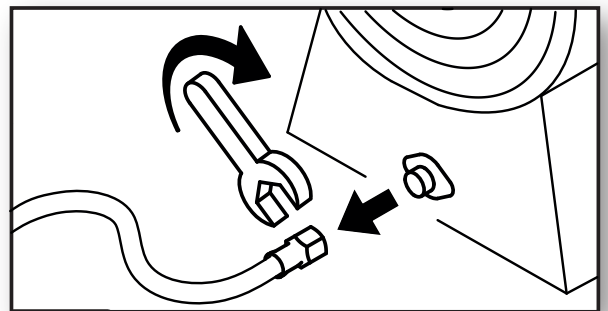
21



22



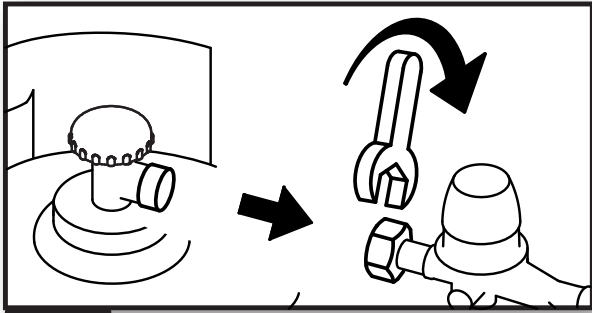
23



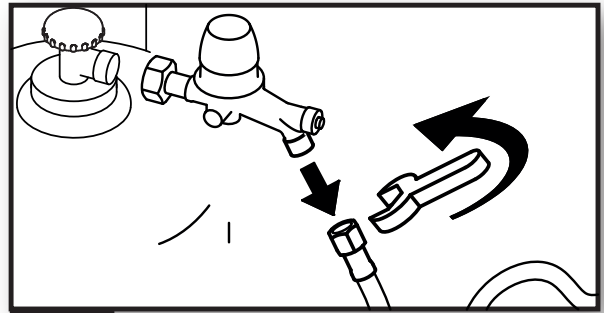
24

FIGURES - FIGURE

en
it



25



26

PARAGRAPH SUMMARY

1...	DESCRIPTION
2...	WARNINGS
3...	TYPE OF FUEL
4...	CONNECTION AND REPLACEMENT OF THE GAS CYLINDER
5...	CONNECTION TO THE MAINS ELECTRICITY
6...	IGNITION
7...	HEAT CAPACITY REGULATION
8...	SWITCH-OFF
9...	CLEANING AND MAINTENANCE
10...	TROUBLESHOOTING

IMPORTANT: READ AND UNDERSTAND THIS OPERATIONAL MANUAL BEFORE PERFORMING ASSEMBLY, COMMISSIONING OR MAINTENANCE ON THIS GENERATOR. INCORRECT USE OF THE GENERATOR CAN CAUSE SERIOUS INJURY. KEEP THIS MANUAL FOR FURTHER REFERENCE.

►► 1. DESCRIPTION

This generator is a portable air heater functioning with liquid gas, characterised by the total use of the fuel, by heat exchange due to direct mixing of the intake air and the combustion products. It has a practical handle for easier transport and handling. The appliance is manufactured in compliance with the EN 1596 Standard.

►► 2. WARNINGS

►⚠️ **IMPORTANT:** Do not use to heat homes and residential buildings; for use in public buildings, refer to national regulations.

►⚠️ **IMPORTANT:** This appliance is not suitable for use by

persons (including children) with reduced physical, sensory and mental capacities or with lack of experience or knowledge unless supervised by a person responsible for their safety. Children must be supervised to make sure they do not play with the appliance. Keep animals at a safe distance from the appliance.

►⚠️ **IMPORTANT:** Improper use of this generator can cause damage, injuries, burns, explosions, electric shock poisoning or endanger life. The first symptoms of suffocation by carbon monoxide are similar to those of flu with headache, light-headedness and/or nausea.

These symptoms could be caused by the faulty functioning of the generator. **IF THESE SYMPTOMS SHOULD OCCUR, GO OUTDOORS IMMEDIATELY and have the generator repaired by the technical after-sales assistance.**

▶ **⚠IMPORTANT:** All cleaning, maintenance and repairs that envision access to dangerous parts (such as replacement of a damaged power supply cable) must be performed by the manufacturer, by its technical after-sales service, by a person with similar qualification, in a way to prevent all risks, even if disconnection from the mains power supply is envisioned.

▶ **2.1.** For correct use of the generator and for preservation of the fuel, follow all local regulations and the Standard in force.

▶ **2.2.** The generator requires suitable fresh air in order to function. It is therefore used outdoors or in rooms with assured and continuous supply of fresh air. Good airing is supplied when the volume of the room is calculated on the heat capacity, using the formula of 1 m³ every 100 W of power. In no case the recommended volume of the room must be smaller than 100 m³. Good ventilation is guaranteed by an opening that satisfies the formula stating 25 cm² per kW of heat power, with minimum of 250 cm², equally divided between the upper

and lower part of the room. National Standards in force are valid for installation, including the Technical Standards and the provisions regarding accident-prevention and the prevention of fires.

▶ **2.3.** The appliance must only be used as a hot air generator (heating mode) or fan (ventilation mode, for models that envision this functionality). Follow these instructions scrupulously.

▶ **2.4.** The Manufacturer declines all liability for damage/injury to objects/persons deriving from improper use of the appliance.

▶ **2.5.** Only power the generator using the type of fuel expressly specified and with current having the voltage and frequency indicated on the data plate applied to the generator.

▶ **2.6.** Make sure the generator is only connected to suitable electric networks with differential switch and suitable earth.

▶ **2.7.** Only use extensions with suitable section, appropriately connected to earth.

▶ **2.8.** The generator must function on a stable level and fire-proof surface, in a way to prevent the risk of fire.

▶ **2.9.** It is prohibited to use the appliance in basements and rooms below ground level.

▶ **2.10.** The generator must not be used in places where explosive dusts, fumes, gases, fuels, solvents and paints are present.

► **2.11.** Whenever the generator is used in proximity of tarpaulin, awnings or similar covering materials, it is considered to use additional fire-proof protections. Make sure the hot parts of the generator are kept at a suitable distance from inflammable materials (material, paper, wood, etc.) or thermolabile materials (including the power supply cable), which in no case is less than 2,5 m.

► **2.12.** Position the gas cylinder in a protected position, behind the appliance (Fig. 1). The generator must never face the gas cylinder (Fig. 2).

► **2.13.** The air vent (rear side) and/or the air outlet vent (front side) cannot be totally or partially obstructed for any reason (Fig. 3). Do not use any air ducting from or to the generator. Make sure air intake slots, present on the bottom of the base, are not obstructed (for models using this solution).

► **2.14.** If the generator does not switch on or switch-on is anomalous, consult the relative section (Par. 10. "TROUBLESHOOTING").

► **2.15.** The generator must never be moved, handled or subjected to any maintenance interventions when it is running.

► **2.16.** In any condition of use or appliance standstill, make sure that the flexible gas hose is not damaged (crushed, bent, twisted, taught).

► **2.17.** If the smell of gas is perceived, switch the appliance off immediately, close the gas cylinder,

disconnect the mains plug and then contact the after-sales assistance.

► **2.18.** If the gas hose must be replaced, only use the flexible type suitable for the pressure used, referring to national regulations. The gas hose must measure 1,5 m.

► **2.19.** When the appliance is controlled by a room thermostat (optional article), the generator can switch back on at any time i.e. when the temperature drops below the threshold set.

► **2.20.** When it is not used, disconnect the generator from the network plug, close the gas supply, disconnect the gas hose from the generator and plug the gas inlet on the generator.

► **2.21.** Have the after-sales assistance check correct functioning of the generator at least once a year and/or according to need.

►► **3. TYPE OF FUEL**

Use category I₃B/P gas only.

►► **4. CONNECTION AND REPLACEMENT OF THE GAS CYLINDER**

The gas cylinder must be replaced in the open air, away from heat sources, in an atmosphere without flames.

Only the following accessories must be used for connection of the gas cylinder to the generator:

- Liquid gas flexible pipe.
- Liquid gas pressure regulator complete with safety valve.

CHECK THE INTEGRITY OF THE GAS SUPPLY PIPE. IF THE GAS HOSE MUST BE REPLACED, ONLY USE THE FLEXIBLE TYPE SUITABLE FOR THE PRESSURE USED, REFERRING TO NATIONAL REGULATIONS.

► To connect the generator to the gas cylinder:

ATTENTION: ALL THREADING IS SINISTRAL, I.E. THEY ARE TIGHTENED IN AN ANTI-CLOCKWISE DIRECTION.

► **4.1.** Screw the gas hose to the generator fitting (Fig. 4).

► **4.2.** Install the pressure regulator on the gas cylinder. Make sure there is a gasket present on the regulator (if envisioned by the type of connection) (Fig. 5).

► **4.3.** Connect the gas hose to the pressure regulator (Fig. 6).

► **4.4.** Open the gas cylinder cock (Fig. 7).

► **4.5.** Press the regulator release button (Fig. 8). **Check tightness of fittings using soapy water: bubbles indicate a gas leak (Fig. 9).** Several gas cylinders can be fitted together to obtain greater autonomy. **We recommend the use of gas cylinders with a capacity exceeding 30 kg. We recommend the use of gas cylinders of adequate capacity, in order to avoid problems due to the failure to gasification of the fuel.** The correct functioning pressure (see

data plate applied to the generator) is given by the regulator supplied or an equivalent model.

►► **5. CONNECTION TO THE MAINS ELECTRICITY**
CHECK YOUR ELECTRIC SYSTEM IS EARTHED CORRECTLY.

Before connecting the generator to the mains electricity, make sure that the power supply voltage and frequency are correct (see data plate applied to the generator). The connection to the mains electricity (Fig. 10) must be made in compliance with the National Standards in force.

►► **6. IGNITION**

IMPORTANT: Check the position of the transformer switch (220-240V / 110-120V) (Fig. 11). If the voltage set on the appliance does not correspond to that supplied by the mains, the voltage must be adapted. Loosen the 2 lid screw fasteners (Fig. 12), shift the switch onto the voltage value supplied (Fig. 13) and re-mount the lid (Fig. 14).

● **6.1. HEATING MODE:**

► **6.1.1.** Take the "O/I" switch to position "I" (Fig. 15).

► **6.1.2.** Press the gas button fully home and hold it down (Fig. 16).

► **6.1.3.** Activate the piezoelectric igniter fully home and repeatedly (Fig. 17), keeping the gas button pressed (Fig. 16).

en ▶ **6.1.4.** After ignition of the flame, hold the gas button down for about 15 s (Fig. 18).

▶ **6.1.5.** Release the gas button (Fig. 19).

In the event of a power cut or if there is no gas supply, the appliance will switch off. The generator does not switch back on automatically. It must be switched on manually by repeating the switch-on procedure. If the appliance does not switch on, consult the relative section (Par. 10. "TROUBLESHOOTING").

● **6.2. VENTILATION MODE:**

The generator can also be used as a fan. Connect the generator to the mains electricity (Fig. 10) and take the "O/I" switch to position "I" (Fig. 15).

N.B.: With the generator functioning in heating mode, before passing to ventilation mode, carry out the correct switch off sequence for the manual models [Par. 8. "SWITCH-OFF"].

▶▶ **7. HEAT CAPACITY REGULATION**

The heat capacity can be regulated by acting the pressure regulator installed on the gas cylinder (Fig. 20), depending on the model.

▶▶ **8. SWITCH-OFF**

▶ **8.1.** Close the gas cylinder (Fig. 21).

▶ **8.2.** Leave the fan to cool for about 60 s, in order to prevent internal damage due to overheating (generator internal cooling).

▶ **8.3.** Take the "O/I" switch to position "O" (Fig. 22).

▶ **8.4.** Disconnect the generator from the mains electricity (Fig. 23).

▶ **8.5.** Disconnect the generator from the gas supply pipe (Fig. 24-25-26).

▶▶ **9. CLEANING AND MAINTENANCE**

Have the after-sales assistance check correct functioning of the generator at least once a year and/or as required. The appliance must be cleaned before it is put away after use.

▶ **9.1.** Before starting any type of maintenance, care and repairs of the appliance, carry out the switch-off sequence [Par. 8. "SWITCH-OFF"].

▶ **9.2.** Cleaning only concerns the air vent (rear side) of the generator.

▶ **9.3.** When the appliance is used again, check the state of integrity of the gas hose and power supply cable. If in doubt regarding their integrity, request the assistance of the technical after-sales service.

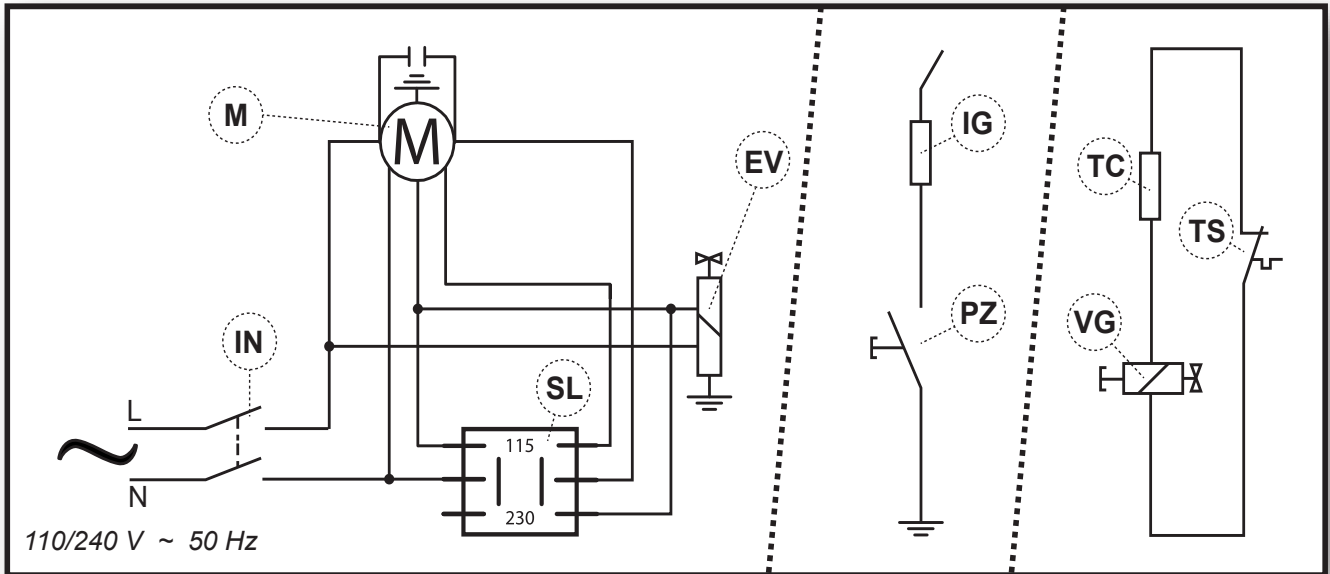
▶ **9.4.** Do not carry out unauthorised interventions.

►► 10. TROUBLESHOOTING

en

FUNCTIONING ANOMALIES	CAUSES	SOLUTIONS
The motor does not start	No voltage	1° Check the mains system 2° After-sales assistance
	Power supply cable faulty/ damaged	After-sales assistance
	Faulty motor	After-sales assistance
The flame does not ignite	Gas cylinder empty	Replace the gas cylinder (Par. 4)
	Regulator safety valve blocked	1° Press the regulator gas release button (Fig. 8) 2° After-sales assistance
	Gas cylinder cock closed	Open the gas cylinder cock (Fig. 7)
	Faulty ignition circuit	After-sales assistance
The flame does not stay on	Gas button not pressed for long enough	Press the gas button for longer (Par. 6.1.4.)
	Faulty generator	After-sales assistance
Flame goes out during functioning	Insufficient gas supply	1° Replace the gas cylinder (Par. 4) 2° After-sales assistance
	No gasification of the fuel	Use gas cylinders with suitable capacity (Par. 4)
	Appliance overheating	1° Clean the air vent (rear side) 2° After-sales assistance
	Faulty generator	After-sales assistance

ELECTRIC SYSTEM - IMPIANTO ELETTRICO



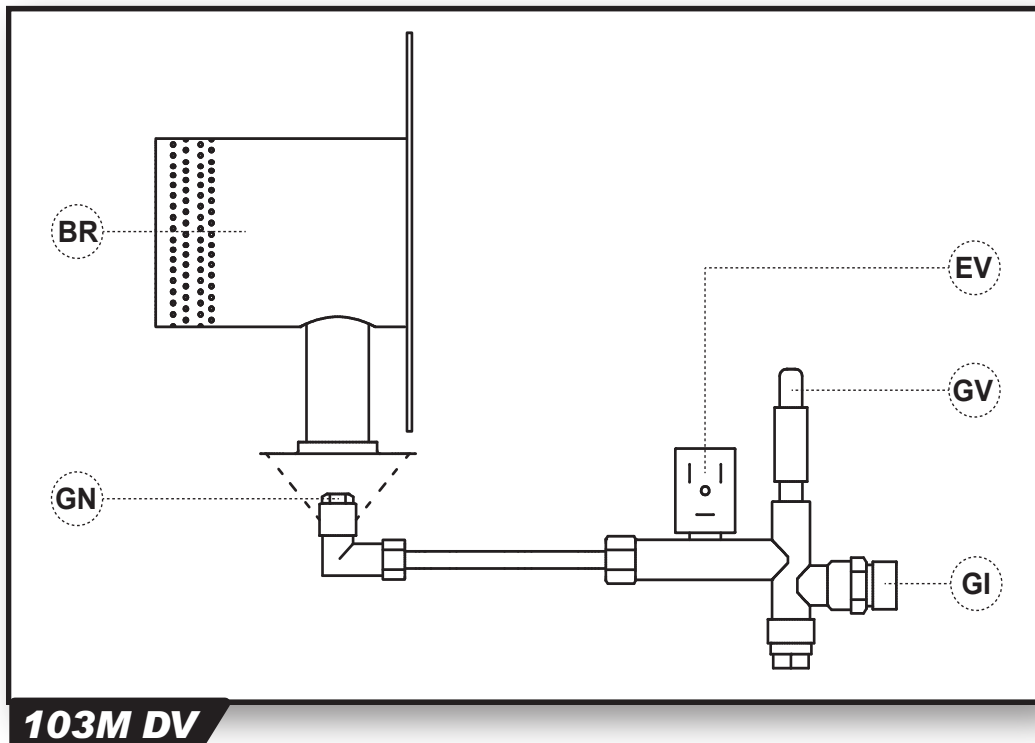
103M DV

IN	Switch - Interruttore
M	Motor - Motore
EV	Solenoid valve - Elettrovalvola
IG	Igniter - Accenditore
PZ	Piezoelectric - Piezoelettrico
TC	Thermocouple - Termocoppia
VG	Gas valve - Valvola gas
TS	Safety thermostat - Termostato sicurezza
SC	Sensore di controllo - Kontrollsensor
RL	LED - Led
RE	Reset - Reset
TA	Room thermostat - Termostato ambiente
SL	Transformer - Cambiatensione

GAS PLANT - IMPIANTO GAS

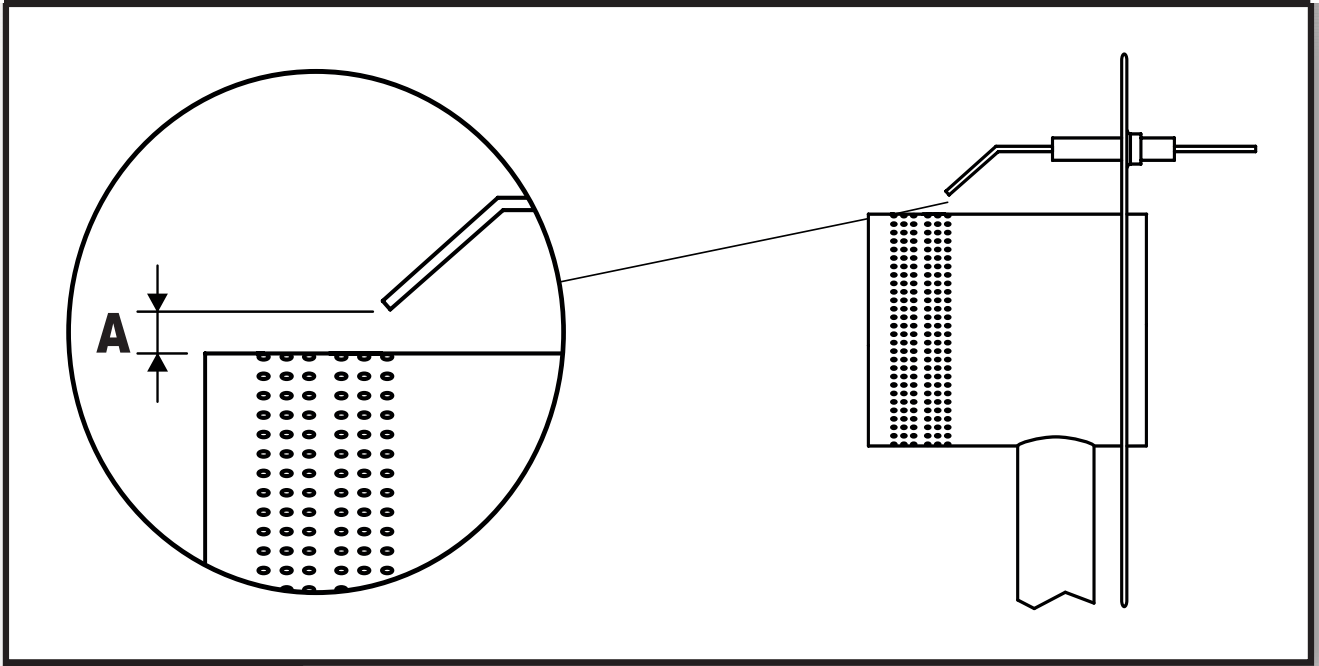
en

it



GI	Gas inlet fitting - Raccordo entrata gas
GV	Gas valve - Valvola gas
EV	Solenoid valve - Elettrovalvola
GT	Gas cock - Rubinetto gas
GN	Gas nozzle - Ugello gas
BR	Burner - Bruciatore

ELECTRODES REGULATION - REGOLAZIONE ELETTRODI











A = 4÷6 mm

TECHNICAL DATA - DATI TECNICI

en

it

MODEL	103M DV
 240 V	220-240 V 50 Hz 1,2 A 300 W
 110 V	110 V 50 Hz 3 A 330 W
 MAX	103 kW 88.600 kcal/h 351.700 Btu/h
 MIN	57 kW 49.000 kcal/h 194.500 Btu/h
	6,66 kg/h
	3.260 m ³ /h
	750÷2000 mbar 75÷200 kPa
	I ₃ B/P
	ΔT 1,5 m: <70K IP 44



CE CONFORMITY CERTIFICATE - DICHIARAZIONE DI CONFORMITÀ CE - EG-KONFORMITÄT SERKLÄRUNG - DECLARACIÓN DE CONFORMIDAD CE - DECLARATION DE CONFORMITE CE - EG-CONFORMITEITVERKLARING - DECLARAÇÃO DE CONFORMIDADE CE - EU-OVERENSSTEMMELSESERKLÆRING - EY-VAATIMUSTENMUKAISUUSVAKUUTUS - CE-SAMSVARERKLÆRING - EG-FÖRSÄKRAN OM ÖVERENSSTÄMMELSE - DEKLARACJA ZGODNOŚCI WE - ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ CE - PROHLÁŠENÍ O SHODĚ CE - EK MEGFELELŐSÉGI NYILATKOZAT - IZJAVA O SKLADNOSTI IN OZNAKA CE - CE UYGUNLUK BEYANI - IZJAVA CE O SUKLADNOSTI - ES ATTIKTIES DEKLARACIJA - EK ATBILSTĪBAS - DEKLARĀCIJA - EÜ VASTAVUSDEKLARATSIOON - DECLARAȚIE DE CONFORMITATE CE - PREHLÁSENIE O ZHODE CE - ДЕКЛАРАЦИЯ ЗА СЪВМЕСТИМОСТ CE - ДЕКЛАРАЦИЯ ВІДПОВІДНОСТІ CE - IZJAVA CE O PRIKLADNOSTI ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ CE - CE 符合性声明

MCS ITALY S.p.A. Via Tione, 12 - 37010 - Pastrengo (VR) ITALY

Product: - Prodotto: - Produkt: - Producto: - Produit: - Product: - Produto: - Produkt: - Tuote: - Produkt: - Produkt: - Produkt: - Изделие: - Výrobek: - Termék: - Izdelek: - Ürün: - Proizvod: - Gaminys: - Ieīce: - Toode: - Produsul: - Výrobok: - Продукт: - Виріб: - Proizvod: - Προϊόν: - 产品:

BLP 103M DV

We declare that it is compliant with: - Si dichiara che è conforme a: - Es wird als konform mit den folgenden Normen erklärt: - Se declara que está en conformidad con: - Nous déclarons sa conformité à: - Hierbij wordt verklaard dat het product conform is met: - Declara-se que está em conformidade com: - Vi erklærer at produktet er i overensstemmelse med: - Vakuutetaan olevan yhdenmukainen: - Man erklærer at apparatet er i overensstemmelse med: - Härmed intygas det att produkten är förenlig med följande: - Oświadczam, że jest zgodny z: - Заявляем о соответствии требованиям: - Prohlašuje se, že je v souladu s: - Kijelentjük, hogy a termék megfelel az alábbiaknak: - Izpolnjuje zahteve: - Aşağıdaki standartlara uygun olduğunu beyan ederiz: - Izjavljuje se da je u skladu s: - Pareiškiame, kad atitinka: - Tiek deklarēts, ka atbilst: - Kāesolevaga deklareeritakse, et toode vastab: - Declarăm că este conform următoarelor: - Prehlasuje sa, že je v súlade s: - Декларира се че отговаря на: - Відповідає вимогам: - Izjavljuje se da je u skladu s: - Δηλώνουμε ότι είναι σύμφωνο με: - 兹证明符合:

**2009/142/CE, 2004/108 EEC, 2006/95 EEC
EN 1596, EN 55014-1-2-2A/1, EN 61000-3-2, EN 61000-3-3,
EN 62233, EN 60335-1, EN 60335-2-102**

Pastrengo, 15/05/2013

Stefano Verani (CEO MCS Group)