

COLD WATER PRESSURE WASHER GPW 120.11 SP C GPW 150.15 TP C



EN INSTRUCTION MANUAL - USE - MAINTENANCE

(TRANSLATION OF THE ORIGINAL INSTRUCTIONS)

Attention: Do not use the appliance until you have read the operating and maintenance manuals.

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- **Model:** GPW 120.11 SP C
GPW 150.15 TP C
- **Serial number:**
- **Year of manufacture:**

**THIS MANUAL IS INTENDED FOR ALL GPW 120.11 SP C -
GPW 150.15 TP C MODELS**

NOTES FOR THE CONSULTATIONS OF THE MANUAL

This manual contains the information and anything else considered necessary for the knowledge, good use and normal maintenance of the cold water pressure washer, hereinafter also referred to as machine or pressure washer, manufactured by the Constructor, hereinafter also referred to as Manufacturer.

This manual does not provide a complete description of the various parts nor a detailed description of their operation; the user will find that it is normally useful to know what to do in order to use the machine safely and keep it in good condition.

On the observance and fulfilment of the above, together with careful maintenance, depend the smooth running, the duration and the economy of operation of the machine.

This manual is supplied in single copy with the purchase of the machine. In the event that the Customer needs more copies, it must be requested from the Manufacturer, specifying the model and serial number of the machine in question (the information is on the nameplate).

This manual was written in Italian by the Manufacturer's Technical Department and is translated into all the languages of the European Community countries where the machine is sold. In the event of disputes or incorrect translation and interpretation, the manual in the language of the machine Manufacturer's country applies.

The use of the machine question necessarily requires that the User is a person with good professional skills and work experience with similar machines. If this is not the case, it is essential that the user attends a course on how to use the machine at the manufacturer's premises or at a dealer's or, in any case, by personnel qualified by the manufacturer.

This manual is an integral part of the machine and, therefore, must be stored so that it is always available for consultation, in a protected and dry place away from direct sunlight.

Throughout this manual there are several safety guidelines that aim to make using the machine easier and safer. To facilitate understanding they have been divided into:

- **WARNING:** this term identifies events that may compromise the integrity of the machine.
- **CAUTION:** this term identifies events that may compromise the safety of operators. In some cases they are shown in bold.
- **NOTE:** this term identifies general information on the machine and important information for a successful production cycle.

ATTENTION



ALL REQUESTS OR ORDERS FOR ACCESSORIES AND/OR SPARE PARTS FOR THE MACHINE SHOULD BE FORWARDED TO THE MANUFACTURER'S SALES OFFICES.

The manufacturer reserves the right to make changes to the dimensions, shapes and characteristics of the machine at any time and without prior notice.

ATTENTION



The manual must be kept close to the operator's station and re-read periodically. THE MANUAL MUST ALWAYS ACCOMPANY THE MACHINE, EVEN IN THE EVENT OF RESALE.

MAIN WARNINGS FOR MACHINE USE



It is mandatory to read this Use and Maintenance Instruction Manual before carrying out any work on the machine: its initial operation by unqualified persons could cause serious injuries to people and damage to property.



All maintenance, adjustment and replacement operations described in this Use and Maintenance Instruction Manual must only be carried out after the machine has been stopped. Do not work on the machine before stopping the moving parts that make it up.



The keys for opening the guards must be kept by the person in charge of the machine. Leaving the key inserted in a lock may cause a danger that an unauthorized person will come into contact with hazardous moving parts.



The operations that require direct contact with machine parts that heat up during processing, such as adjustment, assembly and replacement, must only be carried out using protective gloves to avoid any risk of accident.



The guards have been fitted by the Manufacturer in order to safeguard the operator's safety. During operation the guards must not be removed for any reason.



It is forbidden to tamper with, alter or modify, even partially, the machine, the equipment of the command and control system and the relative devices for interfacing with the operator, as well as the protections provided for the safety of persons.



It is extremely important that no unauthorized person passes through the working area of the machine or, worse still, intervenes on a component of the machine during its operation, in order to avoid possible accidents.



Before starting the MACHINE make sure that all protective devices are in place and fully functional.



Smoking is strictly forbidden in the vicinity of the machine during refueling and in all phases of work, maintenance and cleaning of the machine.



When carrying out adjustment, maintenance and/or replacement operations within the working area of the machine, pay the utmost attention to all potentially hazardous elements.



Be extremely careful in areas of the machine where there is a risk of contact with moving parts, in order to avoid crushing/dragging of the upper limbs.



During lifting and transport operations, special lifting devices and ropes or chains with a load capacity greater than the sum of their own weight and that of the item to be lifted must be used.

NOTE

IN THE NEXT CHAPTERS, AT THE END OF THE PARAGRAPH, SUITABLE “CAUTION” NOTICES WILL BE LISTED REGARDING THE SPECIFIC RISKS APPLICABLE TO THE CHAPTER. THIS DOES NOT EXEMPT YOU, HOWEVER, FROM CONSIDERING ALL THE MAIN WARNINGS DESCRIBED ABOVE APPLICABLE.

IMPORTANT NOTE PLEASE NOTE THAT THE USER IS REQUIRED, IN ACCORDANCE WITH ITALIAN LEGISLATIVE DECREE NO. 81/2008, TO UNDERTAKE A PROPER ANALYSIS OF THE RISKS RELATING TO THE MACHINE / PERSONNEL OPERATIONS UPON COMMISSIONING THE MACHINERY IN THE WORKPLACE.

NOTE

ALL FORESEEABLE ACTIVITIES WITH THE MACHINE, WHETHER FOR TECHNICAL WORK OR PRODUCTION USE, HAVE BEEN CAREFULLY ANALYZED FROM THE INITIAL DESIGN STAGE THROUGH TO THE DRAFTING OF THIS MANUAL. DESPITE THIS, RESIDUAL HAZARDS MAY EMERGE OVER TIME. IN PARTICULAR, HAZARDS MAY EMERGE THAT, ALTHOUGH IDENTIFIED, CANNOT BE ELIMINATED OR SUFFICIENTLY REDUCED BY DESIGN AND AGAINST WHICH SAFEGUARDS ARE NOT FULLY EFFECTIVE.

THE OPERATOR MUST THEREFORE TAKE SERIOUSLY THE HAZARD SIGNS ON THE MACHINE AND EVERYTHING IN THE MANUAL.

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CHAPTER 1 - GENERAL INFORMATION ON THE INSTRUCTION MANUAL

1.1 INTRODUCTION

This manual will help you get to know your machine and use it correctly, so please read it carefully before using it. Each machine is sold with its own Use and Maintenance Manual. The user is responsible for the management of this manual throughout the life of the machine and will only dispose of it if it is destroyed.

The manufacturer shall not be liable for any tampering with this manual or for any changes made to the machine by the user after delivery which are not covered in this document.

The Manufacturer reserves the intellectual property rights to this Manual and prohibits its dissemination in whole or in part, in any form whatsoever (print, photocopy, microfilm, or other means) and also its processing, reproduction or dissemination by electronic systems, to legal or natural persons without its approval and registration.

1.2 STANDARDS OF REFERENCE

The indications contained in the documents have been used in drafting the Manual:

- **DIRECTIVE 2006/42/EC OF 29/12/2009 - ITALIAN LEGISLATIVE DECREES 17 OF 2010** concerning:
WORK SAFETY AND HYGIENE - Machinery Directive.
- **DIRECTIVE 2014/35/EC** on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.
- **DIRECTIVE 2014/30/EC** concerning:
ENVIRONMENT - Radiation pollution - Radio frequencies and magnetic fields.
- **UNI EN ISO 13857 : 2008** concerning:
Safety of machinery - Safety distances to prevent reaching hazardous areas with upper and lower limbs.
- **UNI EN 981 : 2009** concerning:
Safety of machinery - Systems of auditory and visual hazard and information signals.
- **UNI EN 12100 : 2010** concerning:
Machinery safety - General principles of design - Risk assessment and risk reduction.
- **UNI EN ISO 14119 : 2025** concerning:
Safety of machinery - Interlocking devices associated with guards - Principles of design and selection.
- **UNI EN ISO 60335-1: 2023** concerning:
Safety of household and similar electrical appliances - Part 1: General part.
- **UNI EN ISO 60335-2-79 : 2021** concerning:
Safety of household and similar electrical appliances - Part 2: Special regulations for pressure washers and steam cleaning appliances.

1.3 COMPLIANCE WITH LEGISLATION

In addition to the rules of this Manual, the specific legal provisions in the field of accident prevention at work must be observed.

1.4 DECLARATION OF ABSENCE OF HARMFUL SUBSTANCES

We hereby declare that our products, including hot-melt adhesive used during processing the machine, are produced with materials that comply with the limits established by the regulations in force on the protection of health and the environment and do not contain substances classified as SVHC (Substance of Very High Concern) in accordance with EC 1907/2006 regulation (REACH, i.e. **Registration, Evaluation, Authorization and Restriction of Chemical substances**).

Although the above mentioned substances are not employed in processing cycles of raw materials and our products, their presence cannot however be ruled out in the order of ppm (parts per million), due to the micro-pollution of the raw materials.

1.5 PURPOSE OF THE DOCUMENT

The purpose of this manual is to provide the user with the indications and information to be followed scrupulously for the correct use of the machine and for the protection and safety of the operator called upon to interact with it.

For this reason, the User is invited to:

- make this document available in the workplace and explain it to all operators,
- passing on the manual to subsequent owners of the machine.

1.6 MARKING DATA AND MACHINE IDENTIFICATION PLATE

The nameplate on the machine shows the manufacturer's data, the model, the serial number and the year of construction.

For any communication regarding the machine (problems encountered, warranty work, spare parts, etc.) always refer to this and the data contained therein.

In addition, any warning signs attached to the machine must not be removed for any reason whatsoever and must be strictly observed.

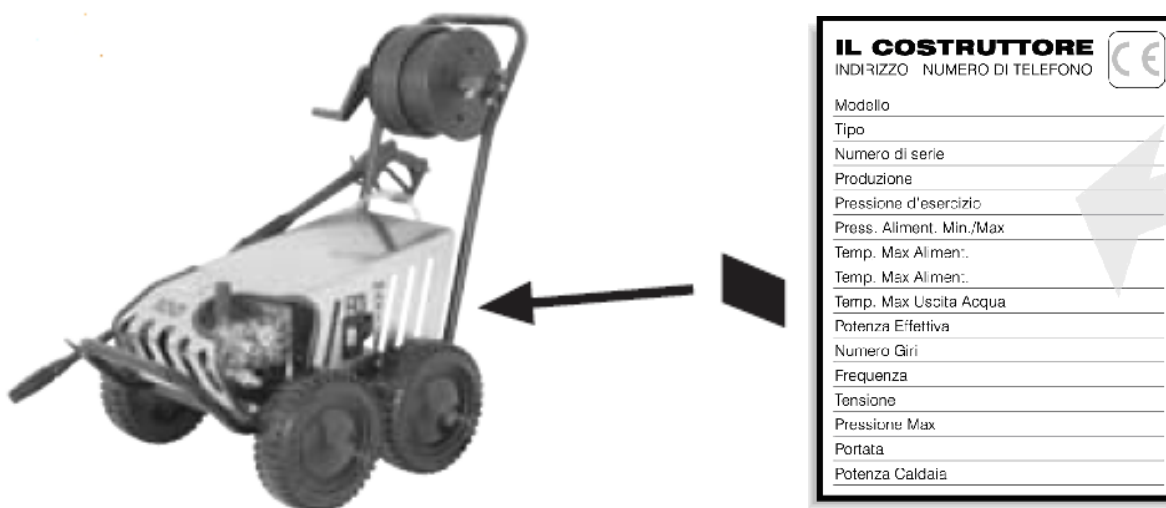


FIGURE 1 SECTION 1.6 - Marking data and machine identification plate

1.7 USE AND STORAGE OF THE MANUAL

This manual is intended for the user of the machine, those responsible for moving, installing, using, monitoring and final dismantling.

The manual serves to indicate the intended use of the machine in accordance with the design assumptions and technical characteristics; it provides instructions for moving, appropriate and safe installation, assembly, adjustment and use; it provides information to direct maintenance work, facilitates the ordering of spare parts and provides information about any residual risks.

In particular, the following information must be constantly available for consultation:

- Conditions of use envisaged for the machine;
- Workstation occupied by the operator;
- Instructions on:
commissioning, operation, transport, installation, assembly and disassembly, adjustment, maintenance and repair work, any training instructions;

The manual is considered to be an integral part of the machine and must be kept in good condition until it is finally scrapped.

The manual must be stored in a protected, dry place, protected from sunlight and must always be available for consultation near the machine.

1.8 DOCUMENTS ACCOMPANYING THIS MANUAL

The machine is supplied complete with:

- EC' declaration of conformity of the machine;
- Instruction manual for the installation, use and maintenance of the machine;

1.9 USER INFORMATION

This manual reflects the current state of the art of the machine and cannot be considered to be a guide inadequate only because it has been updated on the basis of new experience; the manufacturer reserves the right to update production and manuals, without being obliged to update previous production and manuals.

The characteristics of the materials may be changed at any time, according to technical development, without prior notice.

The manufacturer is relieved of any responsibility in the event that the machine is used:

- misuse;
- use by untrained personnel;
- use contrary to the provisions of this Manual;
- use contrary to applicable laws and regulations;
- use with primary power failure;
- use with serious deficiencies in planned maintenance;
- use with modifications or interventions not explicitly authorized by a written note from the manufacturer;
- use with non-original spare parts or not specifically defined by model;
- use with total or partial disregard of the instructions contained in this Manual.

1.9.1 DEFINITION OF WARRANTY

The machine is subject to warranty in accordance with the agreed contractual terms which form an integral part of the order or regulations in force, in all cases for a maximum period of twelve (12) months from the date of dispatch from the factory. The guarantee only covers faults that may be due to mechanical or assembly defects. The warranty does not cover wear parts and electrical parts.

The general sales warranty is void in the event of:

- poor conservation;

- inexperience of use;
- exceeding performance limits;
- excessive mechanical and/or electrical and pneumatic stress;
- improper use of the machine, failure to observe the rules of use;
- use of non-original spare parts, i.e. not sold directly by the manufacturer or authorized dealer;
- modifications to the machine or maintenance work not carried out by personnel recommended by the manufacturer or the dealer.

Any requests for further copies of this document must be settled with a purchase order sent to the Manufacturer.

1.9.2 TARGET AUDIENCE

This manual is the basic tool for personnel who, in various capacities, deal with the machine in various tasks, such as:

- Transport and machine handling workers.
- Pressure washer operators.
- Maintenance operators.
- Final demolition workers.

Before proceeding with the various operations, the persons listed above must have carefully read and memorized this manual.

1.9.3 PERSONNEL TRAINING

Ordinary use does not require the use of particularly specialized personnel, provided that they are adequately trained and instructed in the operations to be carried out, are familiar with this manual and are aware of the general safety regulations.

Please follow the instructions carefully, for your own safety, for the safety of others, for the protection of your machine and for the protection of the environment.

1.9.4 HOW TO REQUEST TECHNICAL ASSISTANCE

The constructor is at the complete disposal of its customers to ensure prompt and accurate technical assistance and anything else that may be useful for the best operation and maximum yield from the machine. For each service request, the data on the identification plate and the type of fault detected must be communicated.

The costs of disassembly and assembly and of transport or packaging of the parts to be repaired or replaced shall be borne by the Customer.

1.10 TERMINOLOGY USED

To complete the description of the various levels of danger, specific situations and definitions which may directly affect the machine and/or persons are described below.

- **USER:** It is the person, or the body or company, who has purchased or rented the machine and who intends to use it for the purposes intended.
- **TRAINING:** Phase enabling the operator to learn the necessary knowledge of the machine to carry out the production activity independently, correctly and safely.
- **WORKING AREA:** Any area in which operators can carry out machine operations.
- **DANGER ZONE:** Any area inside and/or around machinery where the presence of an exposed person constitutes a risk to the safety and health of that person.
- **RESIDUAL RISK:** This is the risk that remains, especially during maintenance, installation and cleaning, even after the application of design and construction safety measures, safety devices and deterrents.
- **EXPOSED PERSON:** Any person who is wholly or partly in a hazardous area.
- **OPERATOR:** The person(s) in charge of installing, operating, adjusting, maintaining, cleaning, repairing and transporting the machine.
- **ROUTINE MAINTENANCE:** Combination of actions and technical checks, to be carried out periodically as specified by the manufacturer, aimed at maintaining the machine in conditions of maximum efficiency and safety.

- **EXTRAORDINARY MAINTENANCE:** Interventions required in the event of anomalies or faults, or to maintain maximum functionality and efficiency of the machine. Such interventions must be carried out by specialized personnel.
- **SPECIALISED PERSONNEL:** These are the people who are trained and authorized to carry out repair or maintenance work requiring special knowledge of the machine and who are able to recognize the hazards arising from incorrect or improper use of the machine.

CHAPTER 2 - GENERAL MACHINE DESCRIPTION.

The cold water pressure washer referred to in this manual is primarily designed to pump water up to a pressure of 200 bar (only for some models), with a practical, long reel hose.

The cold water pressure washer is intended exclusively for cleaning and washing with cold water of objects or surfaces that are suitable for mechanical treatment by the high-pressure water jet and the possible chemical action of detergents. The water pressure is provided by a piston pump driven by an electric engine, powered at different voltages and number of phases (depending on the model).

The cleaning agents to be used must be liquid-based and not powdered and must be biodegradable, in accordance with current regulations.



ATTENTION



During operation, no-one other than the operators in charge must stand near the machine or, worse still, intervene on it.



The protections have been designed by the manufacturer in order to safeguard the safety of the operators while carrying out their tasks. During operation, the guards must not be removed for any reason.

2.1 DESCRIPTION OF THE MACHINE ELEMENTS

The pressure washer consists of the following main components (see figures in this section):

1. Stainless steel shell
2. Tubular steel supporting frame
3. Low voltage (24V) control panel with lights indicating:
 - presence of voltage
 - lack of water
 - STS
4. 3-piston ceramic pump with connecting rod/crank system and brass head. Pressure regulation and built-in detergent suction.
5. Electric engine with thermal protection.
6. Pressure gauge
7. Safety valve
8. 5 m electric cable.
9. Gun
10. Wand
11. A.P. pipe 10 m

Water and detergent filters



GPW 120.11 SP C – GPW 150.15 TP C



2.2 CONSTRUCTION TECHNOLOGY

The products are always up-to-date, both in design and technology, to make the use of high pressure washers safer, simpler and more reliable, both from the user's point of view and from the technical assistance point of view.



TDTS control

- Timed total stop after 12 sec. on gun release
- Total stop of machine and electric motor



STS remote control

- Time Delayed Total Stop
- Machine stop after a preset total stop time
- Micro leakage shutdown
- Shutdown due to lack of water
- Stop due to overheating
- Error indication by flashing light

ATTENTION



During operation, no-one other than the operators in charge must stand near the machine or, worse still, intervene on it.



The protections have been designed by the manufacturer in order to safeguard the safety of the operators while carrying out their tasks. During operation, the guards must not be removed for any reason.



Use protective gloves in order to avoid any type of injury due to the hazardous elements of the machine.

CHAPTER 3 - MACHINE SAFETY AND PROTECTION

3.1 SAFETY RULES FOR ELECTRICAL RISK

- Do not use the machine outdoors in the rain.
- If, despite all the precautions taken, the cable is damaged, do not carry out temporary repairs. A new cable is much cheaper than repairing the damage caused by a possible electric shock, not to mention the danger that a defective cable would pose to people and animals.
- Do not carry out any maintenance while the plug is plugged into an electrical outlet.
- Take care not to hit the machine with water jets, as this could cause a short circuit
- If an extension cable is to be used for the electrical cable, ensure that the connection between the supplied cable and the extension cable is made in a stable manner and in accordance with current safety regulations.
- The plug and socket must be watertight.
- Do not use the electrical plug to switch the machine on or off; only use the appropriate switches.
- Keep the machine out of the reach of children and/or unauthorized persons and make sure that nobody can touch it when it is connected to the mains.
- It is strictly forbidden for the operator to carry out any operation with the machine if he is barefoot.
- Do not operate the machine with defective components.
- Do not use the machine in the presence of people on the working line.
- Do not direct the water jet at electrical sources....
-

3.2 SAFETY RULES FOR MECHANICAL RISK

- Do not put your hands in front of the wand; high-pressure nozzles can be extremely dangerous when used improperly
- When the work is completed, after stopping the machine, release the residual pressure in the delivery pipe and in the pump by operating the gun lever.
- Unwind the high-pressure hose completely before use.
- Lock the machine if fitted with wheels before using it once positioned.

3.3 SAFETY STANDARDS FOR ENVIRONMENTAL RISK

- It is strictly forbidden to wash engines in unsuitable spaces, this operation must only be carried out in places where, for environmental protection, a suitable oil separator is installed.

3.3.1 SAFETY SIGNS AND STICKERS ON THE MACHINE

REFERENCE	P2
DESCRIPTION	Pictograms on the control panel providing safety instructions on the risks involved in using the pressure jet
HAZARD EXPLANATION	<ul style="list-style-type: none"> ▪ Generic HAZARD: Read the manual before using the machine ▪ Cutting, impact, abrasion HAZARD: Do not direct the jet at people or animals <p>Machine with fluid under pressure. When using the gun, grip it firmly to prevent reaction force.</p> <ul style="list-style-type: none"> ▪ Electrocution HAZARD: Do not direct the jet towards electrical equipment

PROHIBITION SIGNS	SIGNAL DESCRIPTION
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PROHIBITION OF REMOVAL OF PROTECTIVE EQUIPMENT
 This sign is applied in the vicinity of the guards or protective devices and indicates the prohibition of their removal while the line is in use.

OBLIGATION SIGNALS	SIGNAL DESCRIPTION
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OBLIGATION TO READ THE INSTRUCTION, USE AND MAINTENANCE MANUAL
 This sign is attached to the clamps and obliges the operator to read the instructions in the operating and maintenance manual.

ATTENTION



It is **ABSOLUTELY FORBIDDEN** to remove or damage the safety signs on the machine.

CHAPTER 4 - RESIDUAL RISKS

Despite the safety precautions taken by the manufacturer during the design and production phases, during the normal production cycle the machine still presents certain risks that are considered residual.

This chapter lists the residual risks and the rules to be observed in order to avoid situations that are hazardous for the operator, the machine and the surrounding environment due to the presence of these residual risks.

In order to deal with these residual risks, the end user must have suitable PPE (Personal Protective Equipment) available and follow the instructions for use in this manual.

The residual risks are indicated directly on the machine by means of warning signs:



HIGH TEMPERATURES

Thermal hazard due to contact with hot parts (engine pump may become hot)



BURST FLUID UNDER PRESSURE

Risk of high-pressure water leakage. A leak or rupture in a pipe can create a risk of injury and skin infection



HANDLING THE MACHINE

The handling and lifting of the machine, during installation, must only be carried out by personnel trained and qualified by the Manufacturer.



ELECTROCUTION

The pressure washer is powered by electricity via an electric cable. The integrity and good condition of the device must always be checked before use.



EXHAUST OF COMBUSTION GASES;

Exhaust fumes are toxic. Do not breathe exhaust fumes. Never obstruct the exhaust gas openings.

NOTE



THE OPERATOR WHO IS TO WORK ON THE MACHINE **MUST RECEIVE** ADEQUATE INFORMATION ON THE RESIDUAL RISKS TO HEALTH AND SAFETY AT WORK ASSOCIATED WITH THE ACTIVITY IN ORDER TO AVOID POSSIBLE ACCIDENTS.

CHAPTER 5 - PERSONAL PROTECTIVE EQUIPMENT

When operating the machine or during maintenance, personal protective equipment must be worn, such as:

- Safety overalls;
- Protective gloves against thermal and mechanical hazards;
- Eye protection;
- Face shield;
- Non-slip shoes;
- Use of hearing protectors for sound levels above 80 dB.

Before use, check that all personal protective equipment is in good condition.

CHAPTER 6 - INTENDED AND UNINTENDED USE

The cold water pressure washer is intended exclusively for cleaning and washing with cold water of objects or surfaces that are suitable for mechanical treatment with the high-pressure water jet.

Any use other than that for which the machine was designed represents an abnormal condition and may cause damage to the work equipment and constitute a serious hazard to the operator.

Improper use means the use of our machines for operations for which they have not been constructed, i.e.:

- washing objects or vehicles that have come into contact with flammable, aggressive, noxious or explosive dusts, gases or liquids or that otherwise give rise to dangerous reactions in contact with water;
- use in places with a risk of explosion or increased risk of fire;
- use for cleaning animals of all sizes;
- use by non-adult persons, i.e. under 16 years of age;
- use in rain or thunderstorms;
- use for washing any device powered by electricity;
- use by untrained personnel.

NOTE



THIS MANUAL IS AN INTEGRAL PART OF THE MACHINE AND MUST ALWAYS ACCOMPANY IT, EVEN IN THE EVENT OF TRANSFER OF OWNERSHIP.

6.1 CONTRAINDICATION AND HAZARDS DUE TO UNINTENDED OR MISUSE

1. Any operation not mentioned in this manual is considered to be an improper use of the machine which could cause damage to persons and/or property.
2. The machine has not been built to work in an explosive environment, **SO IT IS ABSOLUTELY FORBIDDEN TO USE THE MACHINE IN AN EXPLOSIVE ATMOSPHERE.**
3. During machine operation, never remove or circumvent the protective systems fitted to the machine.
4. All the elements which are not described in this manual may only be adjusted or modified by the manufacturer's personnel or by qualified personnel working under the supervision of the manufacturer's technicians. With regard to components to be traded, please observe the relevant instruction manuals.
5. For any unintended use of the machine, or in any case for any work to be carried out on it, the user is obliged to contact the manufacturer to find out about any contraindications or hazards deriving from improper use of the machine.
6. It is absolutely forbidden to modify the functional and performance characteristics of the machine and/or its main components in order to increase its production potential.

Incorrect use of the machine can be:

- incorrect connection and/or use of the supplied or optional accessories,
- incorrect sequence of commissioning maneuvers,
- failure to use original spare parts,
- repairs carried out by unauthorized personnel,
- maintenance work carried out by unqualified personnel,
- uses for which the machine was not designed (see improper use),
- lack of maintenance,
- use of the power supply cable or high-pressure water outlet hose to tow the machine.



CHAPTER 7 - TECHNICAL DATA

7.1 ENVIRONMENTAL REQUIREMENTS

The cold water pressure washer has been designed and manufactured to be used in the following environmental conditions.

- Maximum temperature +50°C
- Minimum temperature +1°C
- Relative humidity 80%
-

7.2 DIMENSIONS AND TECHNICAL DATA

Table 1 - DIMENSIONS AND TECHNICAL DATA (*) = 60 Hz version available on request

Line		Single-phase	Three-phase
Technical Data (I)	Unit	GPW 120.11 SP C	GPW 150.15 TP C
Scope	L/min	11	15
Operating pressure	Bar	120	150
Maximum pressure	MPa	12	17
Power	kW	2,2	4
T° Max. inlet H2O	°C	50	
Maximum H2O input pressure (water mains or system)	MPa	0,5	
Gun repulsive force at maximum pressure	N	43,69	
Engine insulation	-	Class F	
Engine protection	-	IP54	
Safety valve - intervention pressure (110% Press. Max.)	Bar	132	165
Voltage / Frequency (*)	V/Hz	230/50	400/50
Sound emission level:			
Sound pressure at operator: LPA (EN 3744) K = 3 dB(A)	dB (A)	83	
Sound Power: LWA (EN 3744) K = 3 dB(A)	dB (A)	95	
Hand-arm vibrations K=1.5 M/s2	M/s2	1,32	
WEIGHT	Kg.	57	60
DIMENSIONS (WxDxH)	mm	860 x 600 x 630	

CHAPTER 8 - COMMISSIONING THE MACHINE

8.1 PREVENTIVE CHECKS AFTER RECEIPT

Upon receipt of the goods, check the condition of the package; if any damage is found, refrain from any installation procedure and notify the carrier and supplier immediately.

Ascertain the good condition of the package, proceed to unpack the goods and check that the delivery is complete (check correspondence with the delivery note); ensure that the general condition of the machine is good and that there are no breaks or dents.

In the event of shortages or damage, notify the dealer and/or manufacturer immediately after making any legal reservations with the carrier or companies authorized for this purpose; it is strictly forbidden to dispose of the material in the environment.

8.2 CHECKING THE MACHINE STATUS

Following the document check, in order to detect any damage caused by transport, it is advisable to carry out a thorough check of the condition of the machine.

If the packaging is damaged, take the following action:

- EXTERNALLY RECOGNIZABLE DAMAGE OR MISSING INDIVIDUAL ITEMS:** these must be declared immediately after delivery to the courier or carrier, etc., and confirmed in writing in the consignment note;
- DAMAGE THAT IS NOT IMMEDIATELY RECOGNIZABLE:** this must be declared to the carrier, or transporter, etc., within the time limits permitted by law.
- SERIOUS DAMAGE:** an expert's report by a technical expert appointed by the carrier, the courier or the respective insurance company is required.

ATTENTION



It is forbidden to tow the machine by the power supply cable and/or by the high-pressure water outlet rubber hose.

WARNING



Complaints about missing equipment must be made within the time limits set out in the purchase contract.



If the machine has to be moved manually from one place to another, you must disconnect the plug from the power socket, then, using the special handle and taking care not to make any sudden movements that may compromise your safety, that of others and the integrity of the machine itself, proceed to move it.

NOTE



The machine is normally sent with non-returnable packaging. Packaging materials should be collected and disposed of separately and sent to specialized waste disposal companies (wood, plastic, metal, etc.) and not left within reach of children or animals.

CHAPTER 9 - HANDLING AND INSTALLATION OF THE MACHINE

9.1 PRELIMINARY OPERATIONS

The machine was tested in the manufacturer's factory to verify the correct functioning of all components according to the specifications in force. No preliminary operations are required.



9.2 LIFTING

If the machine is to be transported, it must be secured by means of straps, ropes or other suitable means in a stable and safe manner to prevent accidental movement from causing damage to persons or property as well as to the machine itself.

If the machine has to be lifted, it must be attached to the lifting equipment by means of straps or suitable equipment that safeguards its integrity. Ensure that the equipment used has a capacity greater than the weight and volume of the machine; it is recommended that efficient equipment be used in accordance with the safety operating rules in force.

ATTENTION



It is absolutely forbidden to stand under or in the immediate vicinity of the machine while it is being lifted and moved.

Be wary of bent and shriveled chains or ropes, always use thick work gloves.

Chains or ropes must be firmly attached.

Make sure that the attachment is strong enough to support the intended load....

9.3 TRANSPORT

The machine can be moved on the ground using its own wheels and by pushing on the rear handle.

9.4 FREE SPACES OF RESPECT

The machine requires at least 1000 mm of clearance around it for proper operation and maintenance without the danger of getting in the way of other elements.

ATTENTION



The floor of the place where the machine is to be installed or operated must be even, well levelled and suitable for bearing the loads of the machine.

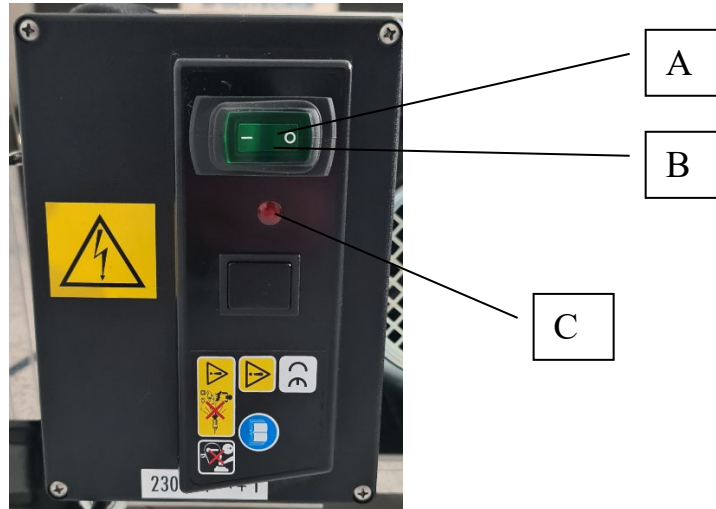
CHAPTER 10 - CONTROL PARTS

10.1 CONTROL STATION

The control station is the place where the operator must be to manage the work cycle and supervise the machine's operation.

The machine is equipped with:

- **NO. 1 COMMAND AND CONTROL PANEL**, on the back side of the pressure washer, on which the machine can be operated;



Key:

- a. Pump engine starter switch (in)
- b. Power line connected indicator light
- c. STS Light

10.2 CONTROL DEVICES

10.2.1 TOUCH SCREEN CONTROL PANEL

REFERENCE	A
CONTROL PART	Pump engine starter switch (in)
DESCRIPTION	Controls the switching on of the pump engine in order to put pressure on the pressure washer's outlet water

REFERENCE	B
CONTROL PART	Line indicator
DESCRIPTION	Indicates the presence of line power, The machine is connected to the mains power supply

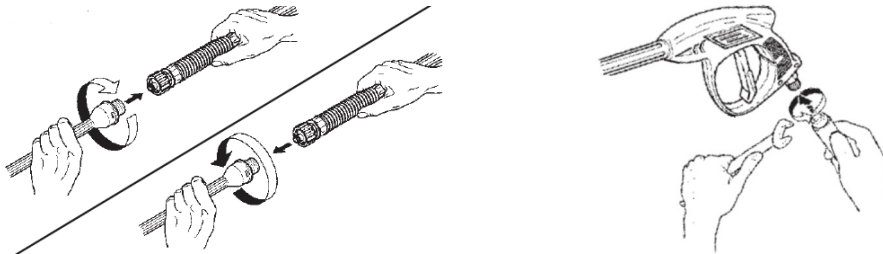
REFERENCE	C
CONTROL PART	Timed Total Stop / Intelligent Total Stop indicator light
DESCRIPTION	<ul style="list-style-type: none">• Lights up 15 sec. after gun is closed TST (Total Stop Temp)• Flashes after TSI (Total Intelligent Stop)

CHAPTER 11 - PREPARING THE MACHINE FOR USE

After positioning the machine in the work area, perform the following operations in sequence to prepare the pressure washer for use.

11.1 GUN CONNECTION

Connect the gun to the high-pressure hose, connecting the wand to the gun, rotating and pushing until the two parts are completely locked together.



11.2 CONNECTING THE HIGH-PRESSURE HOSE TO THE PRESSURE WASHER

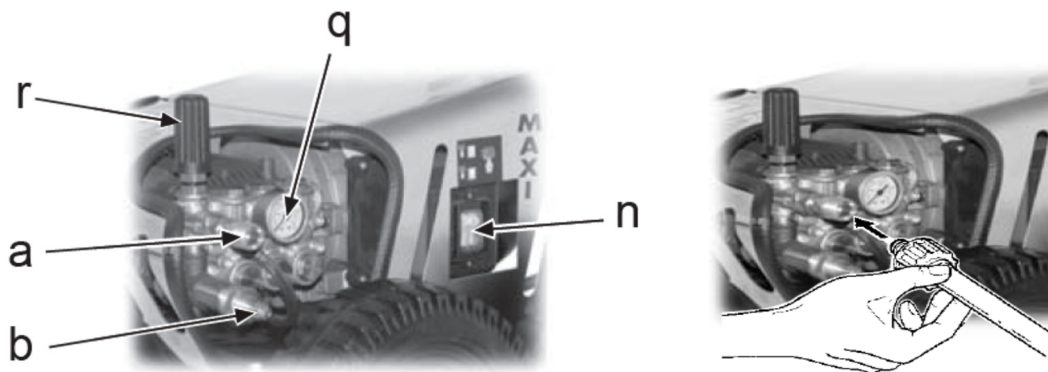
Connect the high-pressure hose to the water outlet (Outlet) of the pressure washer.



11.3 HYDRAULIC CONNECTION TO THE NETWORK

On the front of the machine there is a water inlet connection (b). Connect a water supply hose (not supplied) to the inlet fitting and the other end of the hose to the tap, which must guarantee a minimum flow rate equal to that of the pump

THE CIRCUIT DIAGRAM IS ATTACHED TO THE DOCUMENTATION SUPPLIED WITH THE MACHINE.



ATTENTION



All work on the connection of the machine to external energy sources must be carried out by qualified personnel, in compliance with current regulations and under the supervision of the manufacturer's technicians.



For connection, pneumatic hoses sized for pressures equal to or greater than those required must be used, in any case having a bore of at least 13mm.



The pressure washer must operate with clean water.
Unfiltered water, corrosive chemicals are harmful to the pressure washer.

11.4 ELECTRICAL CONNECTION

First set the engine switch to the "0" position.

Electricity for the operation of all electrical components on the machine must be supplied by means of a cable connected to the general electrical system. It is compulsory to connect the machine to an earthing system with a resistance value that guarantees a contact voltage of no more than 25V.

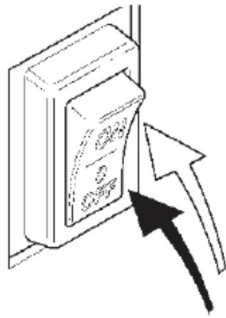
The installation must be carried out in such a way that the connections are not damaged by people or things and, as far as possible, must be carried out away from transit routes.

Check that the electrical outlet has the required characteristics of conformity and suitable differential protection in accordance with current standards, then connect the outlet. Avoid the use of extension cords as far as possible. The cable cross-section of the extension cable must be proportional to its length, i.e. the longer the cable, the greater the cross-section; in addition, cables with an "IPX5" degree of protection must be used.

IMPORTANT NOTE:

Depending on the country where it will be used, the user should check on site what type of network is present (TN, TT, IT system) and if necessary, install a differential.

- *TT system: Protection against contact voltages is only ensured by using the residual current device.*
- *TN system, earth leakage circuit breakers should only be used in special cases, such as in small cross-sections and very long circuits where the above condition cannot be met.*
- *the IT system does not require earth leakage circuit breakers, as they can compromise the continuity of operation that led to the choice of the IT system.*



WHEN MAKING THE ELECTRICAL CONNECTION, OBSERVE THE VOLTAGE AND FREQUENCY VALUES AS STATED IN THIS MANUAL AND ON THE CE LABEL.

THE ELECTRICAL CIRCUIT DIAGRAM IS ATTACHED TO THE DOCUMENTATION SUPPLIED WITH THE MACHINE.



ATTENTION



Connection to the electrical power supply and the earthing system should be carried out by qualified and experienced personnel, in accordance with the regulations in force.



The power network shall be equipped with a circuit breaker suitable for the machine's power rating. In addition, a high-sensitivity residual current circuit breaker with trip threshold $I_{dn}=0.030$ A must always be installed.



Do not move the pressure washer by pulling the electric cable. Possibility of cable breakage, resulting in danger of electrocution

WARNING



NEVER START the pump dry as this could cause damage to the pump. If the pump does not suck in water, switch off the engine immediately.



Before starting work, always check that no hazardous conditions exist in the working area. NEVER LEAVE THE PRESSURE WASHER WITH THE ENGINE RUNNING.

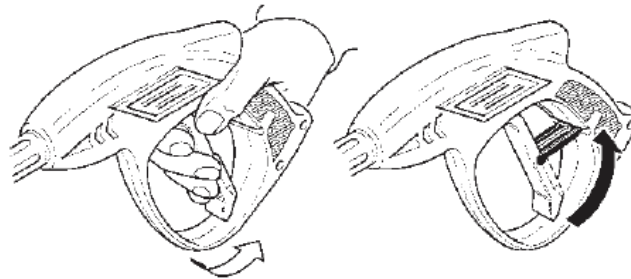
CHAPTER 12 - USE OF THE MACHINE

12.1 DESCRIPTION OF THE OPERATING CYCLE

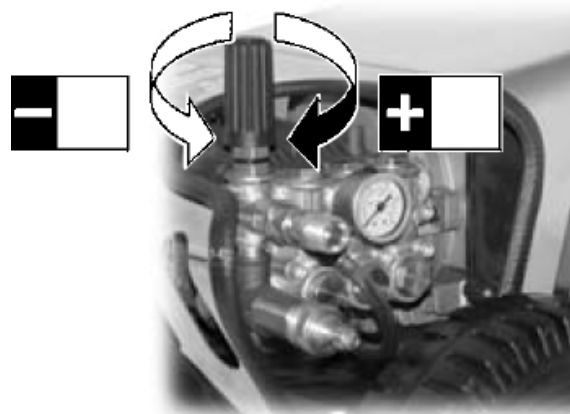
The cold water pressure washer, once connected to the power sources (hydraulic and electric), is ready to deliver, once switched on, the flow of water at a pressure set by the operator.

12.1.1 COLD WATER OPERATION

1. Completely open the water tap of the water supply system.
2. Disengage safety, open the gun and hold it open for a few seconds to allow air and residual pressure to escape from the pipes. Act on the gun lever (3) to obtain water delivery from the wand (4).

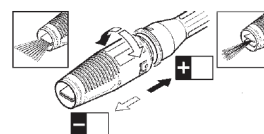


3. Start the engine by pressing the switch. Adjust the pressure adjustment knob to the desired value by turning it clockwise. (FOR MODELS EQUIPPED WITH IT).

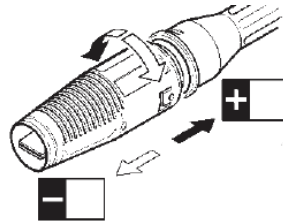


12.1.2 USE WITH CHEMICAL PRODUCT

1. Fill the detergent tank through the nozzle
2. Select LOW PRESSURE and the detergent will be suctioned and mixed with water, suction adjusted by the suction knob



3. Then proceed to spread the detergent vacuumed and mixed with water
4. Correct use of standard accessories. The pressure washer is equipped with an adjustable head, which allows some important functions:
 - a. LOW PRESSURE operation (To suck in and distribute the detergent).
 - b. HIGH PRESSURE operation (For powerful rinsing and washing)
5. Jet adjustment from concentrate to fan. (For versions with it)



- **Practical advice**

Avoid wetting the surface to be treated with the detergent with water, as this will leave a film of water in the way of the product, which will result in poor cleaning results; instead, wait for the chemical to come out of the nozzle while keeping the nozzle pointed towards the ground.

When the detergent reaches the outlet, approach the surface to be treated and, starting from the bottom and in overlapping bands approaching the top, sprinkle the entire surface with the detergent. This system avoids detergent spills on dry surfaces that could leave residues even after rinsing.

In order to avoid deposits or scaling, it is advisable to have the pump suck clean water for a few seconds after work is completed.

- **Important tips**

To protect the environment, we recommend using only approved detergents, observing the recommendations for use and dosage on the packaging labels, using detergent sparingly and remembering that unsuitable detergents, as well as causing damage to the environment, can also damage the pressure washer and the objects to be cleaned.

Before spraying detergent on delicately colored paintwork, make sure that the surfaces to be treated are not hot, that the detergent does not dry out and that the water/ detergent dilution is correct.

It is recommended to rinse well, thoroughly and without leaving any residue.

When the work is finished, switch off the machine and then operate the gun lever in order to release the residual pressure.

12.1.3 CORRECT USE OF THE ROTATING NOZZLE (OPTIONAL EQUIPMENT)

1. For more washing power use the rotating nozzle kit as follows:
 - a. Switch off the pressure washer.
 - b. Remove the adjustable head and insert the rotating nozzle on the wand.
 - c. Switch the pressure washer back on.

12.1.4 CAUTION DURING ALL DESCRIBED MODES OF USE

ATTENTION



The use operations described in this chapter must be carried out **ONLY** by qualified and authorized personnel.



Use personal protective equipment during operation.



In the event of a water shortage: the machine switches off and the warning light (f) comes on:

- check the connection to the water mains (2) (low pressure circuit),
- reset by pressing the switch (in).



If there are micro leaks, the machine switches off and the indicator light (e) flashes:

- check the machine's high-pressure water circuit
- reset by pressing the switch (in).



The machine is equipped with the TST system (Total Stop Timed): it switches off when the water gun is closed, after 15 seconds and the indicator light (e) comes on.



The machine is equipped with a TSI system (Total Intelligent Stop), so it shuts down after 40 minutes from closing the gun. The indicator light (e) flashes.
Reset by pressing the switch (in).

12.2 CONTRAINDICATIONS TO USING THE MACHINE

Full compliance with the Machinery Directive 2006/42 EC and the efforts made by our engineers during the design phase have resulted in a machine that can be placed at the highest safety level for its category. Each of the mechanical, electronic, control, etc. parts, devices or arrangements with which the machine is equipped has been designed taking into account all possible risks that could potentially arise.

Wherever possible, using the best technological resources available today, these risks have been eliminated by applying appropriate protection or technical measures.

Furthermore, in order to avoid machine malfunctions and further risks of injury, it is recommended that the following provisions be scrupulously observed:

- Do not use the machine for purposes other than those for which it has been built
- The machine must be stopped normally using the controls on the panel.
- Do not approach the machine with explosive or flammable materials.
- Do not operate the machine while wearing loose clothing or objects such as scarves, necklaces, ties, etc., which may become entangled or close to potentially hot surfaces
- The protections provided by the manufacturer have been designed to protect the safety of the operator and it is therefore recommended not to tamper with or remove them for any reason.

ATTENTION



The operations described in this chapter must be carried out **ONLY** by qualified and authorized personnel.



The use of protective equipment is **MANDATORY** during the operations described in this section.

CHAPTER 13 - MAINTENANCE

Maintenance is a set of periodic and predefined operations aimed at maintaining the functionality of the machine in all its aspects, as a result of the wear and tear inherent in its use.

The various routine maintenance operations are described below. Please note that lower operating costs and a long service life of the machine depend on continuous compliance with this manual.

For extraordinary maintenance operations not covered in this manual, contact the manufacturer.

CAUTION: all the operations described in the following paragraphs must be carried out with the machine switched off and the electrical system disconnected.

13.1 PRESSURE WASHER CLEANING

Wash with neutral products and water only, then dry thoroughly to remove any water pockets.

Plastic parts should be cleaned in a normal washing procedure.

If there are still traces of dirt, we recommend the use of specific products, carefully observing the manufacturer's instructions.



Do not use products containing solvents, methanol or hydrocarbons.

13.2 MAINTENANCE INTERVALS

DAILY: Check the high-pressure hose for damage (burst hazard).

WEEKLY: Check oil level. In the event of milky oil (water in the oil), contact Customer Services immediately.

MONTHLY: Clean the water filter; Clean the filter on the detergent suction hose Check for cracks in the fasteners between the engine and the frame, ask the customer service department to replace the cracked fasteners.

AFTER 500 HOURS or

ONCE A YEAR: Have the appliance serviced by the service department

13.3 PUMP LUBRICATION

Change the oil after the first 50 hours of operation and every 500 hours thereafter. The recommended oils are shown in the table below.

POINT TO SUPPLY	QUANTITY	RECOMMENDED PRODUCT -20°C +40°C
PUMP (mod. 20 – 21)	1.2 l	SAE 15W40 Mineral
PUMP (mod. 11 – 15)	0.42 kg	AGIP GAMMA 30

ATTENTION



The operations described in this chapter must be carried out **ONLY** by qualified and authorized personnel.



The use of protective equipment is **MANDATORY** during the operations described in this section.

13.4 TROUBLESHOOTING

The tables below list the main malfunctions, with their causes and recommended remedies, that the machine may present during operation.

Any work required must only be carried out by experienced and qualified operators after having read this manual.

PROBLEM	CAUSE	SOLUTION
The machine switches off and control indicator F turns on.	There is not enough water.	Ensure that the machine has a water supply greater than the pump's capacity.
	Supply tap closed.	Check and open the tap
	Inlet water filter clogged.	Check and clean RESET (IN)
The machine switches off and control indicator E turns on.	Presence of microleaks.	Ensure that there are no leaks in the machine's hydraulic circuit; repair or replace any defective parts. Then reset the switch (IN).
	After 1 hour of total stop, the machine stops permanently.	Reset (IN)
The pump runs but does not reach the prescribed pressures.	The pump sucks in air.	Check the intake ducts and ensure good tightness
	Worn valves.	Replace the valves.
	Worn control valve seat.	Replace the valve seat.
	Worn or inadequate water nozzle	Replace the water nozzle.
	Worn gaskets.	Replace the seals.
Irregular pressure fluctuations.	Dirty water filter	Clean the water filter.
	Worn suction and/or discharge valves.	Replace the valves.
	Presence of foreign bodies in the valves that impair their function.	Check and clean.
	Air intake.	Check the intake ducts.
	Worn gaskets.	Replacing seals

PROBLEM	CAUSE	SOLUTION
Pressure drop.	Worn suction and/or discharge valves.	Replace the valves.
	Presence of foreign bodies in the valves impairing operation.	Check and clean.
	Air intake.	Check the intake ducts.
	Worn gaskets.	Replacing seals
Regular pressure at pressure gauge, pressure drop	Worn water nozzle .	Replace the nozzle.
	Lime scale in the circuit.	Check and clean; we recommend our technician.
Presence of water in the pump oil	Worn crankcase side seal ring.	Replace the sealing ring.
	High percentage of humidity in the air.	Change the oil twice as often as prescribed.
	Gaskets completely worn.	Replace the seals.
Noise	Air intake.	Check the tightness of the intake ducts.
	Dirty water filter	Cleaning the water filter
	Insufficient water supply	Ensure that the machine has a water supply greater than the pump's capacity.
	Intake and/or discharge valve springs broken or worn out.	Replacing valves
	Foreign bodies in the suction and/or discharge valves.	Check and clean the valves
	Worn bearings.	Replace the bearings.
	Excessive temperature of the pumped liquid.	Decrease the temperature of the pumped liquid.
Water leaking from drains between crankcase and pump head	Worn gaskets.	Replace the seals.
	Worn piston.	Replace the piston.
	Worn piston cap O-ring.	Replace the piston cap O-ring.
Oil leaking from the drains between the crankcase and the pump head	Worn crankcase side sealing rings.	Replace the sealing rings.
Excessive vibration at discharge.	Worn or dirty valves.	Replace the valves.
The electric engine does not start.	No power supply.	Check if the plug is properly inserted in the socket and if there is current on the line.
	The circuit breaker has tripped	Open the electrical panel and check the circuit breaker

CHAPTER 14 - DISPOSAL

14.1 PRESSURE WASHER DISPOSAL (DEMOLITION OF THE MACHINE)

If you decide to scrap the machine, to prevent it from posing an hazard to people and the environment, it is necessary:

- disconnect the machine from the mains power supply and from the water supply network
- cut the power supply cable and piping
- remove the wand and gun
- cutting electrical wiring
- Disassemble and disconnect the pump and engine from each other
- destroy the identification plate of the machine and that of the pump and engine unit.
- Sheaths, flexible conduits and components made of plastic or non-metallic material must be dismantled and disposed of separately.
- Electrical components such as switches, power supplies, cards, etc., must be dismantled for reuse if they are still in good condition or, if possible, overhauled and recycled.
- The structure, and in any case all the metal parts of the machine, must be dismantled and grouped by type of material. The various parts thus obtained can then be dismantled and melted down to allow the recycling of the original machine material.

All fluids used in the machine's piping must be removed and disposed of in accordance with current regulations. The machine must be dismantled by specialized personnel.

The components of the pressure washer must be disassembled and separated according to the nature of the materials that compose it, and must be disposed of in compliance with the laws in force regarding the collection and separate disposal of waste.



If the machine is dismantled, comply with the anti-pollution regulations in force in the country of use. Failure to comply with these provisions can cause considerable damage to people, animals and the environment.

The End-customer is responsible for any failures and non-compliance with these rules.

14.2 DISPOSAL OF CONSUMABLES OR MATERIALS SUBJECT TO WEAR AND TEAR

With regard to the disposal of parts subject to increased wear, which may have been replaced, no particular recommendations are necessary other than to follow the regulations in force at the place of operation of the machine regarding the separate collection of waste.

Waste oil must be disposed of through the waste oil consortium, in accordance with the law.

14.3 . DISPOSAL OF PACKAGING

Packaging materials and maintenance waste should be collected separately and sent to specialised waste disposal companies (wood, plastic, metal, etc.) and not left within reach of children or animals.

CHAPTER 15 - TEMPORARY DECOMMISSIONING OF THE PRESSURE WASHER

If you decide to keep the machine idle for a long period of time, it is advisable to carry out some operations to keep the machine in good condition.

It is necessary to:

- End a work cycle.
- Switch off the machine and remove the connections to the water supply and the connection to the power socket (if any)
- Store the machine in a place protected from the elements
- cover with a cloth to protect against dust.

Carry out these operations with care so that the equipment is in optimum condition when the work is resumed

CHAPTER 16 - SOUND EMISSION

The Leq equivalent level averaged over multiple processing cycles (including footwear change stages) was measured with Class 1 precision sound level meter as set out in IEC standards with fast-slow reading constant, both from the position where the operator is, and in positions surrounding the machine being considered. There is a phonometric report at the company.

In view of the results of continuous use of the machine, the use of anti-noise devices such as ear plugs or ear muffs is mandatory.

Values taken by analogy from similar machine Robot1.

The measured value is $L_p(A) = 83 \text{ dB}$ and the sound power level is $L_w = 95 \text{ dB}$

	Misura 1	Misura 2	Misura 3	Misura fondo	Unità di misura
Punto di misura	Lp 1	Lp 2	Lp 3	$L_{p, \text{fondo}}$	(dBA)
Punto 1	82.4	81.5	82.2	60.1	(dBA)
Punto 2	80.4	80.7	83.6	54.6	(dBA)
Punto 3	79.0	78.9	82.3	53.8	(dBA)
Punto 4	79.6	82.8	83.1	53.1	(dBA)
Punto 5	82.8	83.2	81.5	56.6	(dBA)
Punto 6	79.6	80.7	79.5	55.2	(dBA)
Punto 7	80.6	81.5	79.8	57.0	(dBA)
Punto 8	81.4	83.2	80.1	53.9	(dBA)
Punto 9	82.5	80.5	81.0	55.5	(dBA)
$L_{p, \text{Medio}}$	81.1	81.6	81.7	56.1	(dBA)
Dev, st	0.26	(dBA)			
Max Var	0.1	(dBA)			
Media due più alti	81.7	(dBA)			
K_1	0.0	(dBA)			
K_2	0.0	(dBA)			
$L_p - k_1 - k_2$	81.7	(dBA)			
Superficie	20	m^2			
$10\log(S/S_0)$	13.0	(dBA)			
L_w	94.7	(dBA)			
L_w (arrotondato)	95	(dBA)			
Incertezza - $u(L_{wA})$	0.54	(dBA)			


Livello di Potenza Sonora
 $L_{wA} = 95 \text{ dBA}$



CHAPTER 17 - HAND-ARM VIBRATIONS

The level of vibration transmitted to the hand-arm system during the work phase via the wand handle is below the warning limit and is equal to $a_w = 1.13 \text{ m/sec}$ (as shown in the graph).

Values taken by analogy from similar machine GPW 120.11 SP C.

MODELLO	GPW 120.11 SP C	
<i>Descrizione: sorgente in normale funzionamento.</i>		
Strumentazione: Sinus - Apollo Sorgente: GPW 120.11 SP C Distanza di misura (dietro): 0,40 m Altezza di misura (pavimento): 1,55 m		

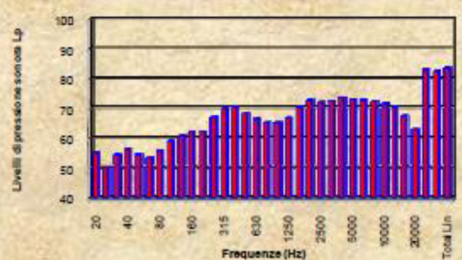
Rumore

Livello di pressione sonora all'operatore **$L_p(A) = 83.0 \text{ dB(A)}$**

Incertezza associata $K_{pA} = 0,75 \text{ dBA}$

Freq (Hz)	L_p (dB)
20	55.2
25	50.2
31.5	54.4
40	56.6
50	54.6
63	53.5
80	55.9
100	59.0
125	60.8
160	62.2
200	62.2
250	67.2
315	70.2
400	70.6
500	68.5
630	66.4
800	65.2
1000	65.2
1250	67.0
1600	70.5
2000	72.7
2500	72.1
3150	72.4
4000	73.8
5000	73.1
6300	72.8
8000	72.4
10000	71.7
12500	70.3
16000	67.5
20000	63.1
Total A	83.0
Total C	82.4
Total Lin	83.5

Pressione sonora all'operatore



Vibrazioni

Livello di vibrazione trasmesso al sistema Mano-Braccio (ISO 5349)

Asse X	1.18	m/s^2
Asse Y	0.54	m/s^2
Asse Z	0.28	m/s^2
$a_{w,eq}(t)$	1.32	m/s^2

Incertezza associata $K_v = 6,3 \%$

CHAPTER 18 - SUMMARY OF THE MAIN WARNINGS

- The safety devices have been designed by the manufacturer to safeguard the operator's safety while performing his tasks. The devices must not be tampered with under any circumstances during operation.
- Work on the switchboard may only be carried out by qualified electricians.
- Never run the machine with no load.
- During operation, when the machine is running, its surfaces are at high temperature, they **must never be touched with bare hands!!!**
- **Never direct the water jet at yourself or other people: the jet may be at high pressure and cause serious injury**
- It is absolutely forbidden, during machine operation, to remove or tamper with the protective covers provided by the manufacturer in order to safeguard the operator's safety.

CHAPTER 19 - SPARE PARTS

19.1 ORDERING RULES

The various components of the machine can be obtained from your local dealer. Insert in the request:

- **Model and serial number of the machine.** These data are printed on the identification plate of each machine
- The **code number of the required** part can be found in the spare parts catalogue available from your local dealer.
- **Description of the part and quantity required.**

Please note that the manufacturer is always available for any assistance and/or spare parts.

19.2 PERSONAL DATA

An exact description of the model, serial number and any installed accessories will facilitate quick and effective responses from the manufacturer or service centre. Always state the type, model and serial number of the machine whenever you contact the service centre. As a reminder, we suggest that you enter the machine data in this box.

<i>MODELLO</i>	<i>MATRICOLA N°</i>
<i>ANNO DIFABBRICAZIONE</i>	<i>TIPO DI POMPA</i>
<i>TIPO DI MOTORE</i>	

NOTES



The responsibility for any re-use of parts of the machines, e.g. engines or pumps, lies exclusively with the user.



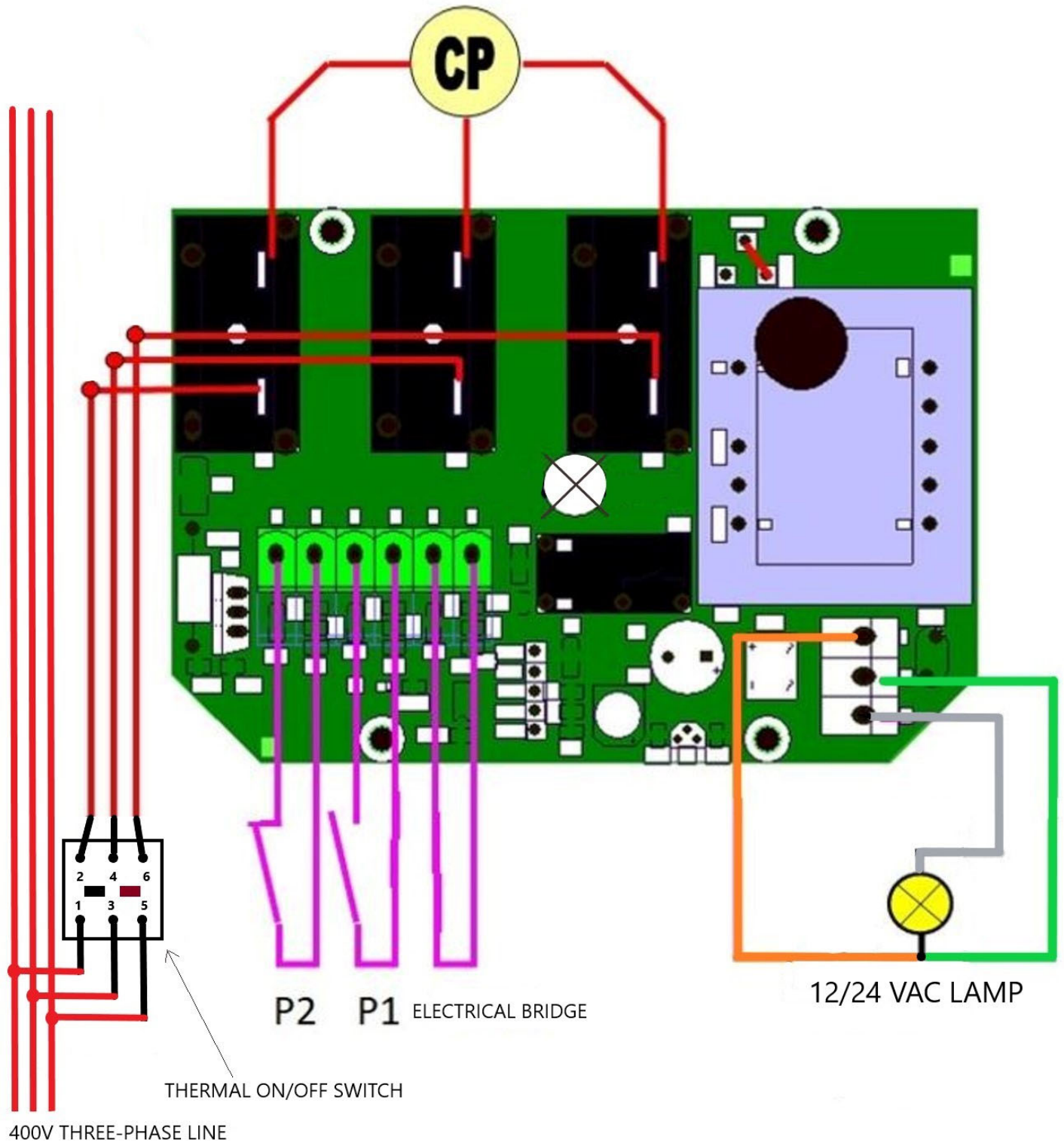
The manufacturer is in no way liable for damage caused by the machine if it is used without certain components or for a purpose not expressly specified in this manual.

ALL RIGHTS RESERVED.

NO PART OF THIS MANUAL MAY BE REPRODUCED IN ANY FORM WHATSOEVER (PRINT, PHOTOCOPY, MICROFILM OR ANY OTHER MEDIUM), OR PROCESSED, REPRODUCED OR DISTRIBUTED BY ELECTRONIC MEANS.

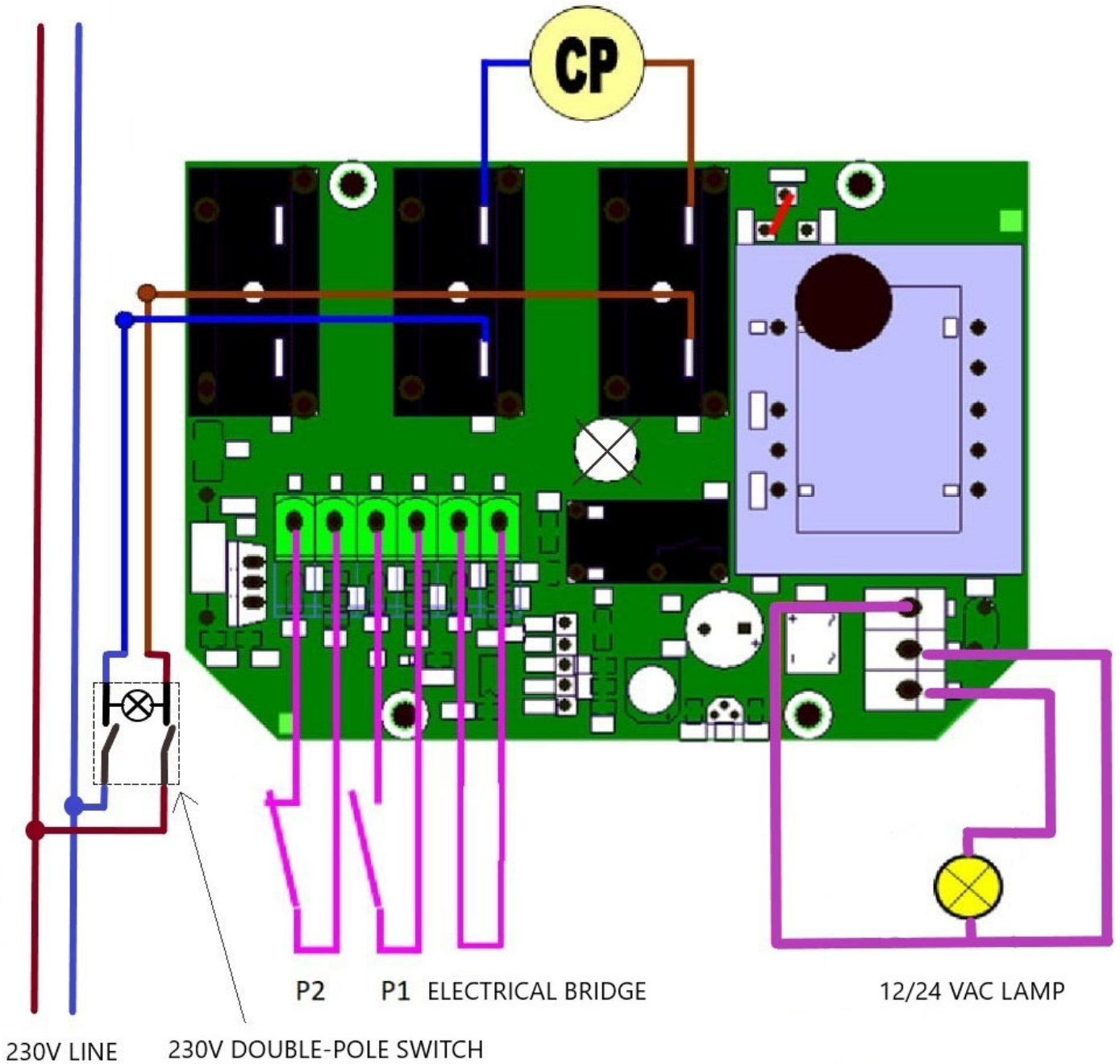
ATTACHMENT - A
ELECTRICAL SYSTEM DIAGRAM

THREE-PHASE 400V STS WIRING DIAGRAM

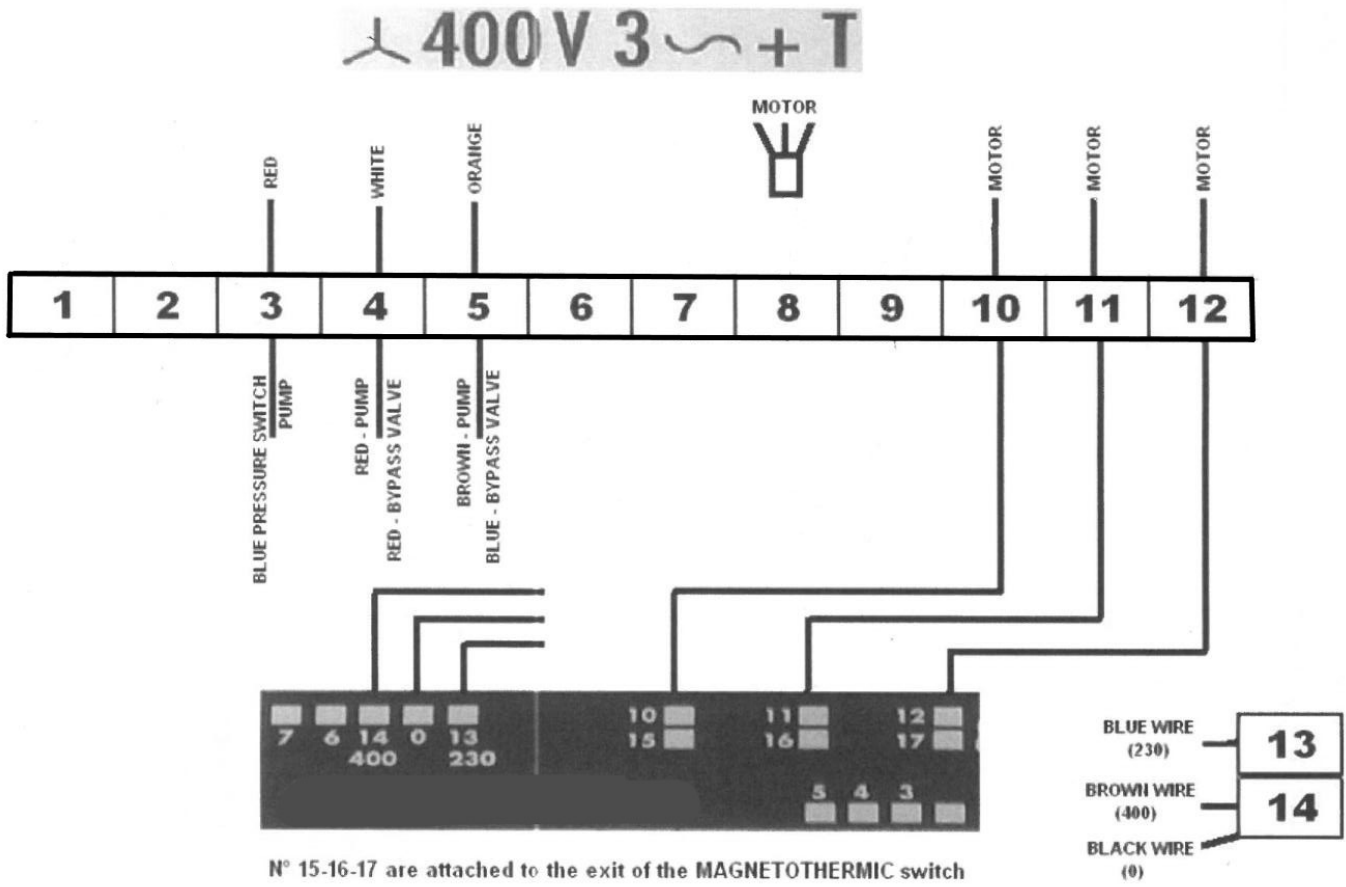


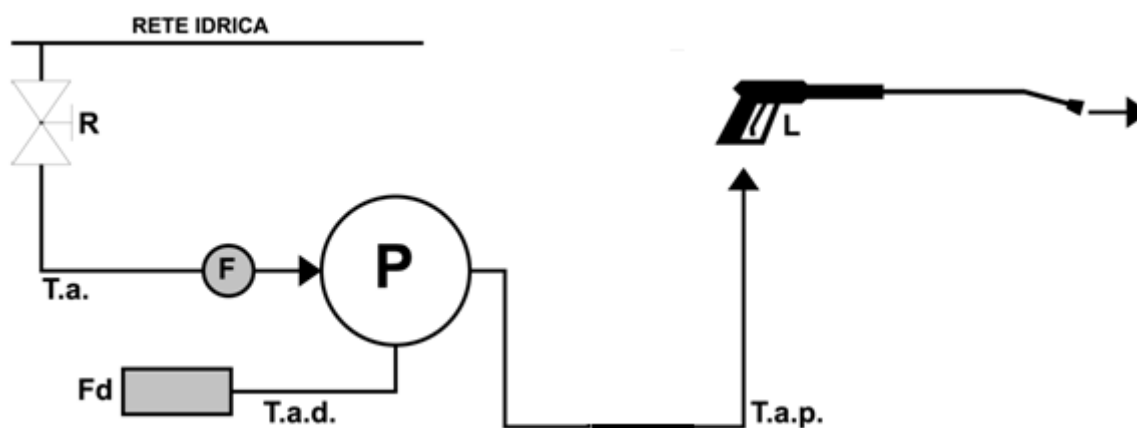
SINGLE-PHASE 230V STS WIRING DIAGRAM

230V SINGLE-PHASE CONNECTION



THREE-PHASE TDTS WIRING DIAGRAM





Key:

- R = water tap
- T.a. = water suction hose
- F = filter
- Fd = detergent filter
- T.a.d. = detergent suction hose
- P = water pump
- T.m. = discharge pipe
- T.a.p. = high pressure water outlet pipe
- L = wand



DICHIARAZIONE DI CONFORMITA'
DECLARATION OF CONFORMITY



allegato II, parte 1.A / annex II, 1.A

PULITECNO dichiara sotto la propria responsabilità che la macchina IDROPULITRICE
modello: **GPW 120.11 SP C / GPW 150.15 TP C**

PULITECNO declares under its own responsibility that the HIGH PRESSURE WASHER machine
model: **GPW 120.11 SP C / GPW 150.15 TP C**

Numero di serie / Serial number _____

Anno di costruzione / Year of construction _____

è conforme alla Direttiva Macchine 2006/42/CE / corresponds to the machines directive 2006/42/CE
2014/30/UE (compatibilità elettromagnetica / electromagnetic compatibility)
2000/14/CE (emissione acustica / acoustic emission)
2011/65/CE (ROHS)
2012/19/CE (RAE/WEEE).

Riferimento norma armonizzata / Reference to the harmonized standard:

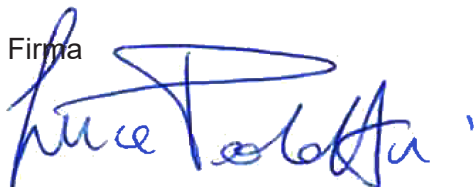
EN IEC 60335-1:2023
IEC 60335-2-79:2021
EN 55014-1:2019
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 61000-3-11:2000
EN 60704-1:2018

Dichiariamo inoltre che il marchio CE è apposto sulla suddetta Idropulitrice e questa
Dichiarazione di Conformità viene rilasciata sotto la sola responsabilità del produttore / We
also declare that the CE mark is affixed to the aforementioned Pressure Washer and
this Declaration of Conformity is issued under the sole responsibility of the manufacturer.

Nome e posizione della persona autorizzata a firmare la Dichiarazione e rilasciare il fascicolo
tecnico / Name and position of the person authorized to sign the Declaration and release the
technical file:

Dott. Luca Pedrotti Amministratore Delegato Pulitecno srl – Via Mentovati, 8 – 29122
Piacenza

Firma



Piacenza, 04/2026

Cod. 49.0391.00 -B- 1^ ed. - 04/2026

DEALER



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