

HIGH PRESSURE WASHER DESCRIPTION

The high pressure washer is a machine marked "CE" in conformity with the rules of the European Community described in the EEC directives 2006/42/CE and in the following changes.

ACOUSTIC PRESSURE LEVEL

The acoustic pressure level is 69,5 DbA.

Each hydrocleaner is equipped with an identification data plate; this data plate reports the address of the company, the EC mark, the model of the hydrocleaner, the tare expressed in Kilos, The serial number, the flow in Lt/h, the typical water nozzle, the construction date, the gross weight expressed in Kilos, the pressure in bar, the tension in V, the frequency in Hz and the power in kW o HP. If the data plate is damaged or missing, ask a copy of the same to the constructor.

TECHNICAL DATAS						
MODEL	MOTOR	PRESS. (Bar)	FLOW (Lt/h)	WEIGHT (Kg)	R.P.M.	DIMENSIONS (cm)
POLAR						
160.15	TRIPHASE HP 5,5 - KW 4	160	900	60	1.450	59 x 77 x 74
160.21	TRIPHASE HP 7,5 - KW 5,5	160	1.260	65	1.450	59 x 77 x 74
200.15	TRIPHASE HP 7,5 - KW 5,5	200	900	65	1.450	59 x 77 x 74
200.21	TRIPHASE HP 9 - KW 6,3	200	1.260	65	1.450	59 x 77 x 74

SPECIFICATIONS

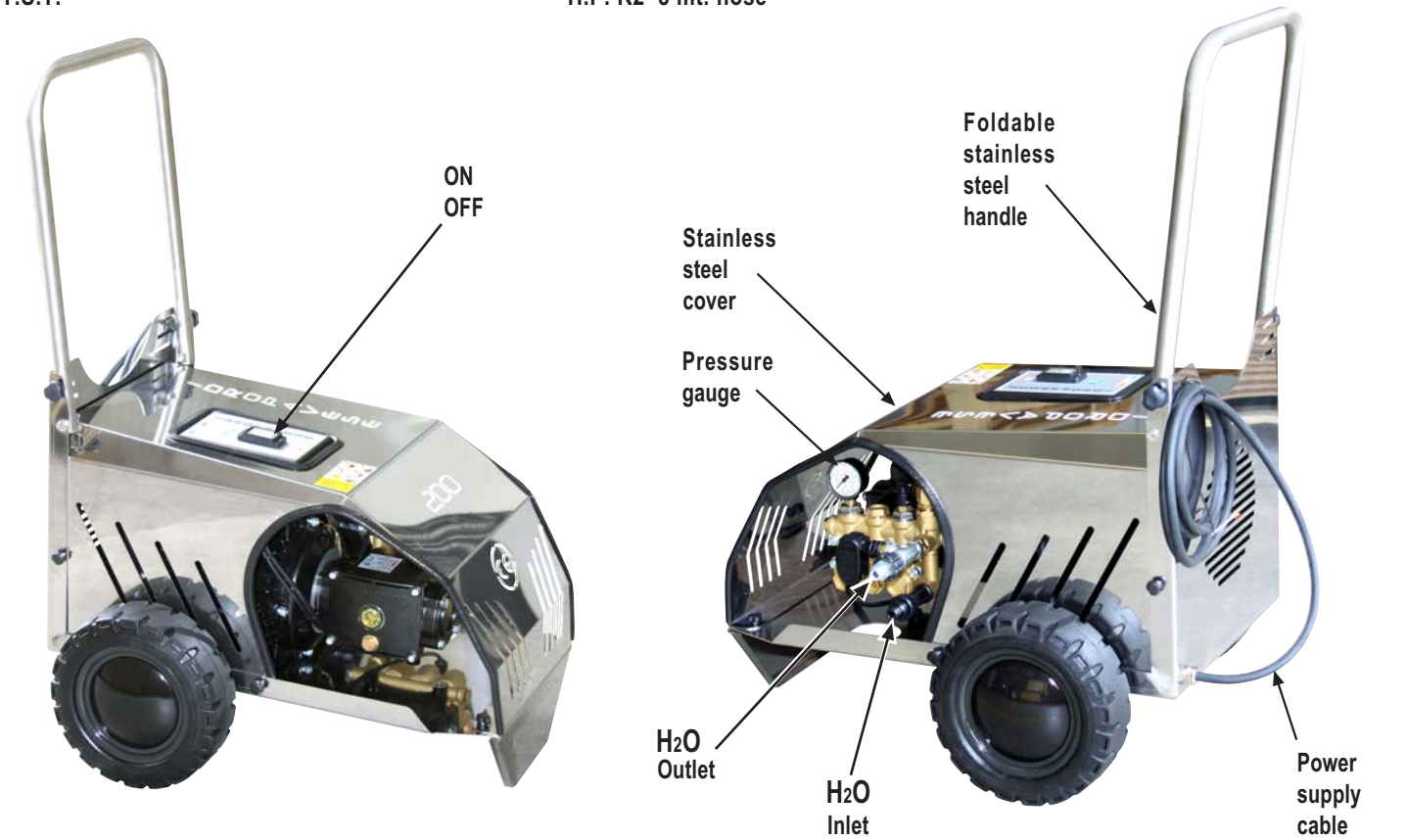
Low pressure detergent suction
Stainless steel frame
T.S.T.

EQUIPMENTS

Use and maintenance manual
Lance with water gun
H.P. R2 8 mt. hose

OPTIONAL

Sand blasting kit



IDROPAVESE
IDROPULITRICI - IDROSABBIATRICI

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USE AND MAINTENANCE MANUAL
POLAR

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GENERAL WARNING

This manual has been drawn up for the USER. Please carefully read the instructions that include important points about the safety for the installation, the use and the maintenance.

THIS SHEET CONSTITUTE AN ESSENTIAL PART OF THE MACHINE EQUIPMENT AND SHOULD BE KEEP IN A SAFE PLACE. Before connecting the unit, check that the socket is protected by a "GROUND FAULT SWITCH" magnetothermic differential switch with intervention sensitivity not exceeding 0,03 A - 30mA. If the main socket and the plug of the machine are incompatible, have professionally qualified personnel change the socket for another of adequate type, also check that the section of the socket wires is suitable for the power absorbed by the machine. It is generally inadvisable to use adapters, multiple sockets and/or extensions. If their use is necessary, only ever use single or multiple adapters and extensions that comply with the current safety provisions governing quality and capacity. This machine has only to be used for the purpose for which it was specifically designed, any other use shall be considered improper and therefore dangereus. The manufacturer shall not be held responsible for any damages caused by improper, incorrect and irrational use of the machine. The use of any electrical machine implies compliance with certain fundamental rules. Particularly:
NEVER TOUCH THE MACHINE WITH WET HANDS OR BARE FEET. - NEVER PULL THE POWER SUPPLY CABLE OR MACHINE IN ORDER TO DISCONNECT THE PLUG FROM THE SOCKET. - IF DURING FUNCTIONING, THE POWER SUPPLY RUNS OUT, FOR SAFETY REASONS TURN THE MACHINE OFF. - NEWER ALLOW CHILDREN OR INCAPABLE PEOPLE TO USE THE MACHINE.

The machine water pump must continuously run with water; dry running will cause serious damages to the seals.

Protect the machine water pump against freezing; avoid storing the machine in cold places.

Never let the machine work for more than 1 or 2 minutes with gun in closed position; over this time, the temperature of the re-cycled water will increase the risk of serious damages.

When the machine is working, do not use it in a closed place where ventilation may be insufficient and never cover the same. During operation, wear suitables clothes complying with safety rules and in any case, make use of protection glasses and antislip rubber shoes.

Avoid to disperse polluting, noxious and toxic substances in the environment.

Disconnect the equipment in case of breakdown or malfunction; for the repair, contact an Authorized Dealer only and ask that only original spare parts are used.

Failing to observe the above instructions, may put the safety of the equipment at risk and the warranty invalidation.

When the machine remain idle for a long time, disconnect the electric and water supplies.

Do not use the machine if the power cord or any important parts of the same appear to be damaged, ex: safety devices, H.P. hose, water gun etc.

WARNING: the water jet from the high pressure nozzle, produces a recoil on the gun, therefore you should hold the gun and the lance firmly.

WARNING: this machine has been designed for use with cleaning agents supplied or recommended by the manufacturer. The use of other cleaning agents or chemicals, may adversely affect the safety of the machine.

WARNING: do not use the machine within the range of persons unless they wear protective clothing.

WARNING: high pressure jets can be dangerous if subject to misuse. Jets must not be directed at persons, electrical equipments or the machine itself.

Do not direct the jet against yourself or others persons in order to clean clothes or footwear.

Disconnect the machine from the water and electrical power supply before carrying out any maintenance operation.

WARNING: high pressure hose, fittings and couplings, are important for the safety of the machine.

Use only hoses, fittings and couplings recommended by the manufacturer.

If an extension cord is used, the plug and the socket must be of waterproof construction.

WARNING: inadequate extension cords can be dangerous.

The machine is equipped with a calibrated water nozzle wich determines the rated performance of the machine.

Each variation of the nozzle's section causes alterations as for the machine performance.

Safety devices: water gun with safety lock.



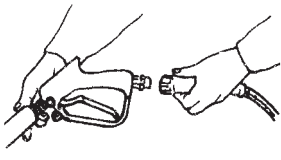
SUITABLE USE OF THE MACHINE

Structural technologies have been studied to assure high reliability and safety levels, and long life of the machine. The machine is supplied witha a lance and gun equipped with a handle to offer a pratcical working position; the shapes and the dimensions of the handle correspond to the safety rules in force. It is forbidden to apply any protections or modifications on the lance. The water you use for the washer must not be dirty, sandy or hold any corrosive chemical products, not to compromise the good functioning and the long life of the equipment.

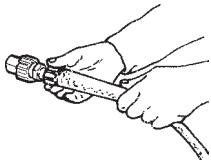
With suitable accessories, the machine can carry out sand blastings works.

The hydrocleaner operator, whether he works in a continuative or irregular way, must know and follow some basic and easy rules of behaviour in order to guarantee the safety of himself and of the other persons, protecting the hydrocleaner from possible damages. People who haven't read and learnt what's written on this sheet, non-qualified persons and people in bad health conditions, cannot operate with the hydrocleaner. The hydrocleaner must be used nly by an "of age" operator.

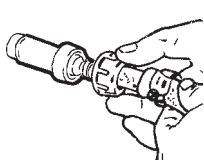
INSTALLATION AND USE



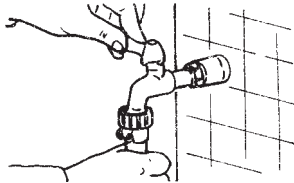
Connect the lance to the H.P. hose.



Connect the other extremity of the H.P. hose to the pump outlet water coupling.



Connect the suction hose to the pump outlet water coupling.

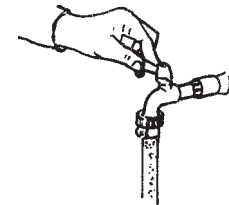


Connect the other extremity of the suction hose to the water tap. Make sure that the quantity of water which feeds the hydrocleaner is equal to the pump capacity.

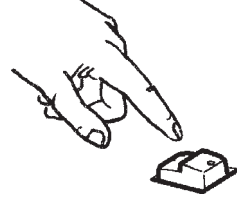
ELECTRICAL FEEDING

Make sure that the net tension is equal to the one printed on the identification data plate on the hydrocleaner. The current tap must be in compliance with the regulations in force in the Country which will use the machine, and it must have the heart discharge. The current tap must be protected with a differential magnetic-thermal switch with a sensitivity below 30 mA (safety-system). Don't connect the same current tap to other plugs. Before plugging in, make sure that the switch is in "OFF" position.

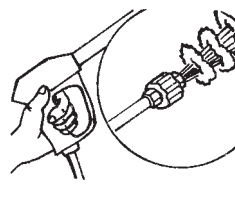
STARTING UP



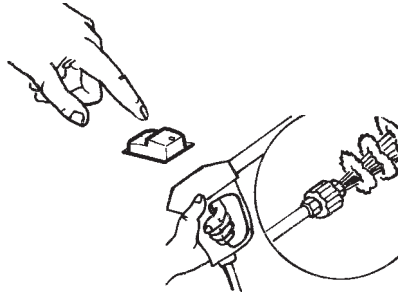
Open the water feeding tap.



Put the start switch in "ON" position.



Open the water gun pressing the gun trigger and keep it in this position for some seconds in order to eliminate the air in the hoses.

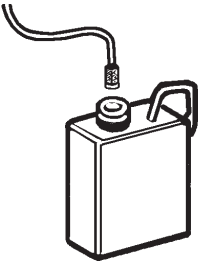


At the end of the work, cut-of the hydrocleaner turning the switch in "OFF" position than, open the water gun to discharge the residual pressure in the H.P. hose.

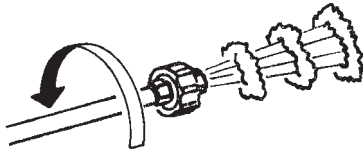
WARNING

When using the hydrocleaner, the operator must wear suitable clothes in order to protect himself. Use protection glasses, antiskid rubber shoes, gloves and overalls.

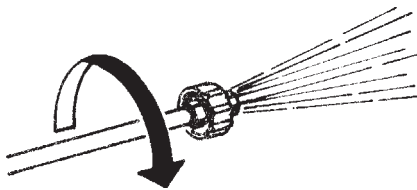
DETERGENT SUCTION FROM THE EXTERNAL TANK



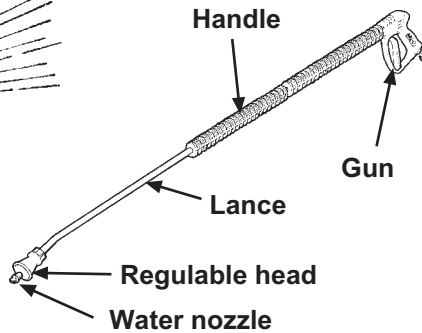
Put the detergent suction hose with filter into the external tank.



Turn the regulable head anticlockwise as indicated by the arrow to obtain the detergent suction and delivery in low pressure.



Turn the regulable head clockwise as indicated by the arrow to retourn in high pressure.

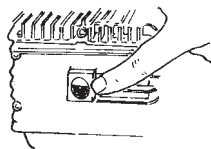


WARNING

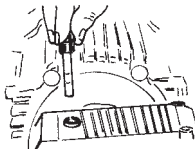
Respect the laws of the country when the hydrocleaner is used relatively to the use and digesting of the products employed to clean. Use only products recommended by the constructor.

MAINTENANCE

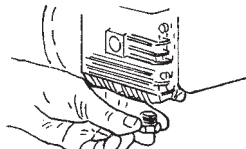
Chek periodically the integrity of the devices, verify periodically the screws and the nuts tightening ad that of every sorts of joints. Respect the conformity of the recommended oil. The spare parts must respect the needs of the company; USE ONLY ORIGINAL PARTS. Only the qualified personnel can carry out the hydrocleaner maintenance. Switch off the plug before maintenance, repairing or cleanin of the machine.



Chek the pump oil level through the spy-hole placed in the rear part of the pump.



Chek the pump oil level by means the apposite bar.



To change the oil, unscrew the drain plug placed in the lower part of the pump. Let the oil drain in an apposite vessel, screw the cap and fil with new oil according to the specifications on the pump itself.

WARNING

For any inconveniences or damages of the machine, we suggest you to go to an Authorized assistance Center for the repair or possible replacement of any original spare parts.

Per eventuali inconvenienti o rotture della macchina, si prega di interpellare un Centro di Assistenza Autorizzato per la relativa riparazione o per la eventuale sostituzione di parti di ricambio originali.

This sheet gives the information and everything is necessary for the good use, the knowledge and the common maintenance of the hydrocleaner that you have purchased. The normal working, the life and economy of the machine itself depend on the observance and fulfilment of what has been described before. The carelessness to what said and a bad and inadequate use of the hydrocleaner could be the cause of the warranty cancellation which the company gives to all his products. It is better to verify, at the moment of the purchase if the hydrocleaner is entire and complete. possible complaints should be made in writing by ten (10) days from the receipt of the hydrocleaner. For possible repairs or overhauls which involve complicated maintenance, it is necessary to call the Supplier directly. The Company is always at your disposal to assure a ready and precise technical assistance and everything useful for the best working and to obtain the maximum of the hydrocleaner yeld.

WARRANTY

Our Company guarantees the hydrocleaner for a period of 12 months from the date of purchase, from manufacturing defects. The purchasing date shall be that indicated on the receipt issued when the Dealer delivers the machine. The warranty with exclusion of every responsibility for direct or indirect damages, is limited only to the material defaults and it is useless if the damaged parts are dismantled altered or repaired by not Authorized Technicians. The manufacturer undertakes to repair free of charge those parts showing manufacturing defects within the warranty period, or to replace these free of charge. Defects not clearly attributable to materials or manufacture shall be examined by our Technical Assistance Center or in our plant and shell be charged according to the outcome of the examination. In any case, the user has to pay for the lubricants substitution, the transport taxes, custom duties and VAT. Repairs and substitutions of the guaranteed parts, will not prolong the terms of the warranty. The warranty shall not cover replacement of the machine or extension of the warranty resulting from a breakdown.

WARRANTY EXCLUSIONS

The warranty shall not cover accidental damages caused by transport, nonchè quelli derivati da negligenza, neglect, inadequate treatment, incorrect or improper use and installation failing or in any case resulting from causes that do not depend on normal operation or use of the machine. Moreover the warranty and the responsibility are useless if the spare parts are not original. The user can follow the warranty only in the case he has observed the conditions seen in the supply contract with the warranty performance.

SCRAPING

When you decide not to use the machine, make it inoperative by taking out the electric feeding cable.

Place it out of the reach of childrens.

Disassemble the machine for spare parts disposal according the law in force.

Do not use the disassembled parts of the machine as spare parts.

In case of demolition, destroy the ID plates and any other documents relating to the pressure washer

The present sheet, every supplement, all the enclosed documents, adhesives and plates present on the hydrocleaner are parte integrative and important parts of the same as useful for your safety and for the machine safety for that, keep it with care and in case of loss or deterioration ask a copy to the Dealer or to the constructor.