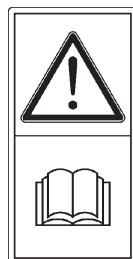


# JETWAVE®

HIGH PRESSURE CLEANERS



## FALCON

Mod. **CW1900-10EI - CW3000-17EI - CW3000-21EI**

**COLD WATER ELECTRIC PRESSURE CLEANER**

INSTRUCTION MANUAL

**JETWAVE** | Imagine a  
cleaner world

## Congratulations! We wish to thank you

for buying this cleaner. You have shown that you do not accept compromises: *you want the best.*

We have prepared this manual to enable you to fully appreciate the qualities and high performance that this cleaner can offer you.

Please read it completely before using the machine.

The **CE** mark on your cleaner shows that it has been constructed in compliance with the International Standards on safety.

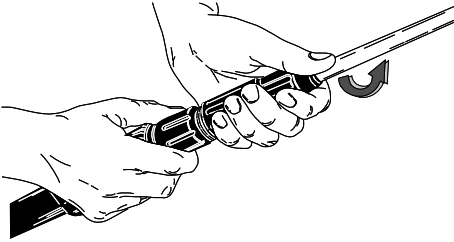
We can also offer you a wide range of cleaning machines such as:

**PRESSURE CLEANERS, WATER JETTING EQUIPMENT, INDUSTRIAL VACUUM CLEANERS** and a complete range of **ACCESSORIES** suitable for cleaning all kinds of surfaces.

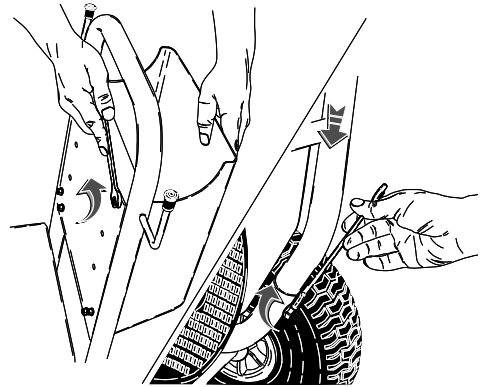
Ask your Dealer for the complete catalogue of our products.

### PREPARING THE CLEANER

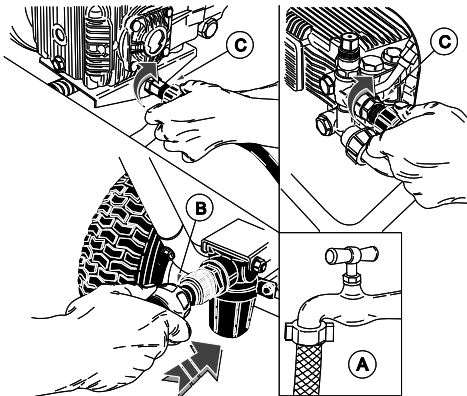
Fitting the lance.



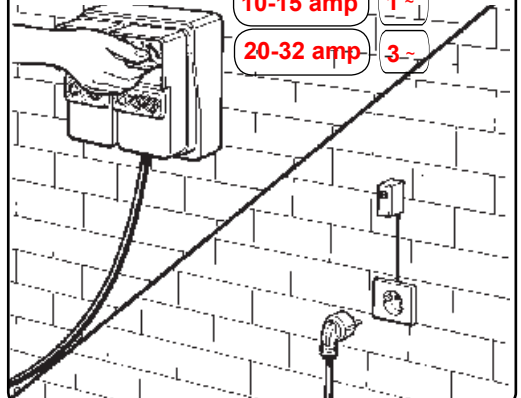
Mounting handle.



Water circuit connection.

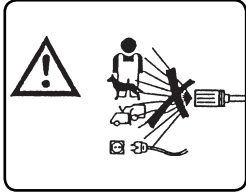


Electrical connection.

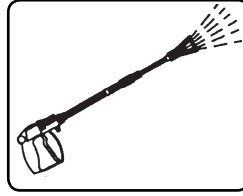


Continue reading this manual without connecting the cleaner to the power mains and the water supply.

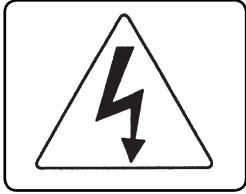
## DESCRIPTION OF SYMBOLS ON THE CLEANER



DO NOT DIRECT THE JET AGAINST PEOPLE, ANIMALS, POWER SOCKETS OR THE MACHINE ITSELF.



WATER OUTPUT.



ATTENTION: RISK OF ELECTRIC SHOCK.



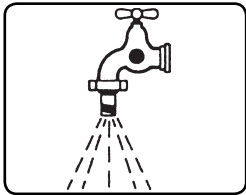
SWITCHING ON THE PUMP MOTOR.



EARTH.



CHEMICALS (DETERGENT).



WATER INPUT.



SPECIAL WASTE. DO NOT DISPOSE OF WITH ORDINARY WASTE.



USE APPROPRIATE PERSONAL PROTECTION DEVICES.

## CLASSIFICATION OF RISKS:

### **Danger**

Identifies an imminent risk which could lead to serious or fatal injury.

### **Warning**

Identifies a risk situation which could lead to serious injury.

### **Information**

Identifies a risk situation which could lead to minor injury or damage to things.

## PREFACE

### **Warning**

You must read this manual before installing, starting up and using the high pressure washer.

This manual is an integral part of the product.

Read the warnings and instructions contained in the manual carefully as they provide important information on

**USER SAFETY and MAINTENANCE**, paying particular attention to the general safety regulations.

**KEEP THIS MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE.**

### **Warning**

Those operating and servicing the high pressure washer must be aware of the contents of this manual.

## CLASSIFICATION

The user must observe the conditions of use of the appliance prescribed by the Rules, and particularly he must respect the following classification:

As for the protection against electric shock, the H.P. cleaner belongs to **CLASS A**.

The H.P. cleaner is factory set and all its safety devices are sealed. **It is forbidden to alter their adjustment values.**

The H.P. cleaner must be always used on a firm and flat ground, furthermore it must not be moved while it is working or connected to the electric supply.

The water cleaner is considered as a fixed device.

Failure to observe this prescription may cause danger for the user.

The H.P. cleaner must not be used in the presence of corrosive or potentially explosive atmospheres. (vapours or gas).

## GENERAL SAFETY RULES FOR THE USE OF HIGH PRESSURE CLEANERS

### **Warning**

- The electric connection must be performed by qualified technicians who are able to work in observance of the governing rules (in compliance with the provisions of the IEC 60364-1 standard) and of the manufacturer's instructions.

A wrong electric connection may cause damage to persons, animals or things, and the manufacturer cannot be considered responsible for these.

The H.P. cleaners with power lower than 3 kW are equipped with a plug for connection to the electric supply.

In this case please check if the electric power system and the electric sockets are compatible with the max. power of the appliance indicated on the plate. (kW)

In case of doubt, please apply to qualified personnel.

If the socket and the plug of the machine are not compatible, have the plug replaced with a suitable type by qualified personnel.

- Before connecting the machine make sure that the data indicated on the plate correspond to those of the electric supply.

- Do not use extensions to power the high pressure washer.

If you use an extension, the plug and socket must be watertight. Unsuitable extensions may be dangerous.

- The electric safety of this machine may be assured only when it is properly connected to an efficient grounding system in accordance with the governing laws for electric safety. (In compliance with the provisions of IEC 60364-1)

- It is necessary to check this essential safety requisite. In case of doubt, ask for accurate control of the power system by qualified personnel.

The manufacturer may not be considered responsible for damages occurred because of the lack of the grounding system.

- The H.P. cleaner must be connected to the electric supply by means of an omnipolar switch with opening contacts of at least 3 mm. This switch must have electric features which are consistent with the appliance. (This requisite does not apply to H.P. cleaners with plug and electric power lower than 3 kW).

It is recommended that the electric supply to this machine should include a residual current device that will interrupt the supply if the leakage current to earth exceeds 30 mA for 30 ms or a device that will prove the earth circuit.

- The appliance is disconnected from the electric supply only by pulling out the plug or switching off the omnipolar switch.

- Water cleaners with the "Total Stop" device should be considered as off when the omnipolar switch is in the "O" position or the plug is unplugged from the socket.

- The high pressure washer is not intended for use by children, adolescents or persons with reduced physical, sensory or mental capabilities, under the influence of alcohol or lacking experience and knowledge.

Operators must be made aware of the instructions for using the appliance by a person responsible for their safety.

Children must be supervised to ensure they do not play with the high pressure washer.

- Use only original accessories that can allow safe working of the appliance.

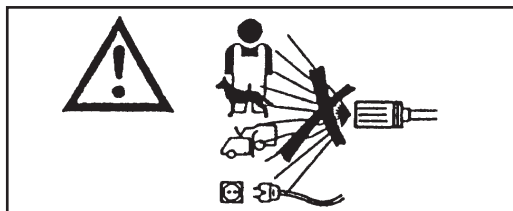
- The flexible hose connecting the lance to the H.P. cleaner must not be damaged. In case of damage, replace it immediately. The hose must be marked with the permitted pressure, date of fabrication and manufacturer.

- Hoses, connections and fittings for high pressure systems are very important to guarantee the safety of the H.P. cleaner. Use only original spare parts which have the manufacturer's approval.

- Do not use the H.P. cleaner when persons or animals are in its field of action.

- High pressure jets may be dangerous if not properly used.

The jet must never be directed at persons or animals, electric appliances or at the appliance itself.



- The high pressure water jet causes a reaction power on the lance. Hold the lance grip vigorously.

- The use of the H.P. cleaner must be considered according to the kind of washing which must be performed.

Protect yourself against the ejection of solid materials or corrosive substances by means of adequate protective clothing. (Gloves, goggles, etc.)

- The use of the H.P. cleaner must be considered according to the place where the washing is performed (for example: food plants, pharmaceutical plants, etc.) Pertinent rules and safety conditions must

be followed.

- Do not direct water jets at your own or other people's body in order to clean clothes or shoes.

- While working it is forbidden, to stop the trigger (lever) of the lance in delivery position.

- Before starting any cleaning or maintenance operation, disconnect the machine from the electric and water supply networks.

- Periodically, **at least once a year**, have the safety devices checked by one of our service centres.

- At least once a year, have the safety of the water cleaner checked by our technical service centre.

- Do not use the machine if the supply cable is damaged.

For the replacement of the damaged cable apply exclusively to one of our technical service centres.

The supply cable of this appliance must not be replaced by the user.

- The electric power cable must never be under mechanical tension and must be protected against accidental crushing.

- The use of any electric appliance requires the respect of some basic rules:

- Do not touch the appliance with wet or damp hands or feet.

- Do not use the appliance bare-footed or with unsuitable clothing.

- Do not pull the supply cable or the appliance itself in order to disconnect the plug from the electric supply. (For water cleaners rated at less than 3 kW fitted with plug)

- In case of damage or malfunction, switch

off the appliance (disconnecting it from the water main and from the electricity main via the omnipolar switch or by unplugging the plug in the case of water cleaners rated at less than 3 kW) Do not tamper.

As for the protection against electric shock, the H.P.cleaner belongs to **CLASS A**.

**Apply to one of our technical service centres.**

**Failure to observe the above warning frees the manufacturer from all responsibility and constitutes negligent use of the product.**

## INTENDED USE

This appliance is intended exclusively for cleaning machines, vehicles, buildings and general surfaces suitable for treatment with a high pressure jet of detergent solution between 25 and 250 bar (360 - 3600 PSI).

This appliance has been designed for use with the detergents supplied or recommended by the manufacturer. The use of other detergents or chemicals may influence the safety of the appliance.

This appliance must be used only for the purpose for which it was specifically designed.

All other uses are to be considered incorrect and therefore unreasonable.

### Examples of unreasonable use:

- Washing surfaces not suitable for cleaning with a high pressure jet.
- Washing people, animals, electric equipment or the machine itself.
- Using unsuitable detergents or chemicals.
- Blocking the trigger (lever) of the lance in delivery position.

Improper, incorrect or unreasonable use absolves the Manufacturer of all liability.

All high pressure washers are constructed in compliance with current safety standards and regulations.

## PRELIMINARY OPERATIONS

### UNPACKING

After unpacking, ensure that the cleaner is undamaged.

If in doubt, do not use the machine.

Contact your dealer.

Packaging (bags, boxes, nails, etc) is potentially dangerous and should be kept out of reach of children. It should be disposed of or retained in respect of national environmental legislation.

### FITTING THE SEPARATE PARTS OF THE MACHINE

All the fundamental parts and safety devices of the machine are assembled by the manufacturer.

For reasons of packing and transport, some secondary cleaner parts are supplied separately.

The user must fit these parts as explained in the instructions supplied in each assembly kit.

### DATA PLATE:

The data plate bearing the main technical characteristics of your cleaner is located on the trolley and is always visible (fig. 1).

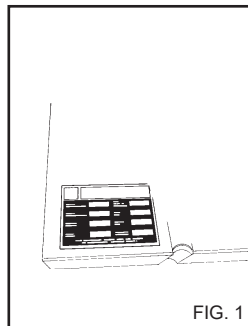


FIG. 1

### ⚠ Warning

**When buying your cleaner, ensure that it has an identification plate. If there is no plate, inform the manufacturer and/or the dealer immediately. Machines without a plate must not be used and the manufacturer declines all responsibility for them. Products without a plate must be considered anonymous and potentially dangerous.**

### FILLING THE DETERGENT TANK

### ⚠ Warning

From the range of recommended products, choose the one most suited to the washing job to be done (fig. 2) and dilute it with water according to the instructions on the pack.

Fill the detergent tank with the diluted product (fig. 3).

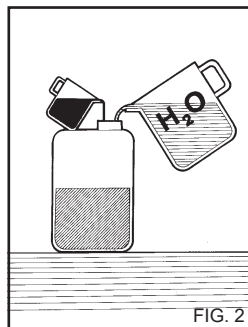


FIG. 2

Ask your dealer for the catalogue of the detergents that can be used depending on the type of washing job to be done and the type of surface to be treated.

After using a detergent, the detergent intake circuit must be flushed out with clean water (fig. 8).

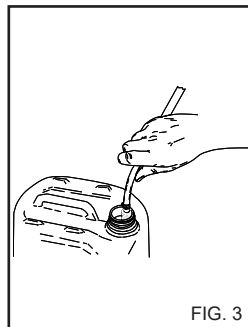


FIG. 3

### COMMAND AND CONTROL DEVICES

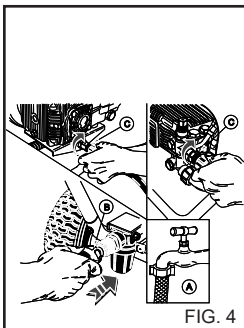
Before connecting the machine to the water supply and to the power mains, it is essential to know the function of the cleaner's command and control devices.

## WATER CIRCUIT CONNECTION

Connect the feed hose to the mains (fig. 4A) and to the hosetail on the cleaner (fig. 4B).

Check that the pressure and quantity of the water supplied by the mains are sufficient for the cleaner to work properly: 2 to 8 BAR (29 to 116 PSI).

Maximum temperature of feeding water 50°C (122°F).



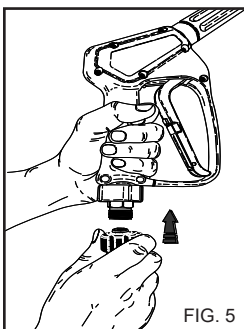
Connect the high pressure hose to the cleaner (fig. 4C) and to the lance (fig. 5).

## WATER SUPPLY WITH SELF-PRIMING SYSTEM.

The high pressure washer can be supplied by drawing water from an external tank.

Connect a water supply pipe to the fitting on the high pressure washer, inside diameter 25 mm, max length 10 m.

The maximum suction height is 1 m. (Fig. 6).



A mesh filter should be installed at the end of the suction pipe.

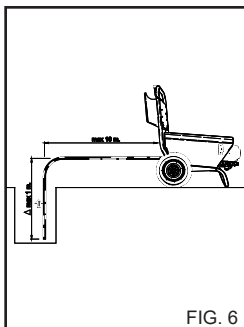
### **⚠ Danger**

**The cleaner must operate with clean water. Dirty or sandy water, corrosive chemicals and solvents can cause severe damage to the cleaner.**

### **⚠ Danger**

Never suck up liquids containing solvents or acids in the pure state, for example petrol, paint solvents or diesel. The spray mist from the lance is highly inflammable, explosive and poisonous.

Failure to respect the above absolves the manufacturer of all liability and represents negligent use of the product.



### **⚠ Warning**

Do not connect the machine to a drinking water container.

## ELECTRICAL CONNECTION

Connection of the cleaner to the mains must be carried out by skilled technicians able to ensure that all regulations in force are complied with **use in respect of current standards and legislation.**

Ensure that the mains voltage available is the same as the voltage at which the cleaner is supposed to work; this is indicated on the identification plate.

### **⚠ Danger**

- The electric cable must be protected from accidental crushing.

- Do not use the machine if the supply cable is damaged.

- The use of any electric appliance requires the respect of some basic rules:

- Do not touch the appliance with wet or damp hands or feet.
- Do not use the appliance bare-footed or with unsuitable clothing.
- Do not pull the supply cable or the appliance itself in order to disconnect the plug from the electric supply. (For water cleaners rated at less than 3 kW fitted with plug).

As for the protection against electric shock, the H.P. cleaner belongs to **CLASS I**.

**Failure to observe the above warning frees the manufacturer from all responsibility and constitutes negligent use of the product.**

## CLOTHING AND EQUIPMENT



Wear safety shoes with non-slip soles.

Wear protective goggles or visor and safety garments.

You are recommended to wear overalls to reduce the risk of injury caused by involuntary contact with the high pressure jet.

## USING THE CLEANER

### CONTROL PANEL

- A - On/off switch.
- B - Fault - Maintenance indicator light. (If featured).

### STARTING THE CLEANER

- 1) Turn on the water supply tap (fig. 4A).
- 2) Connect the water cleaner to the mains electricity supply via the omnipolar switch or by plugging the plug into the socket.
- 3) Start the cleaner by turning the selector switch to pos. 1 (fig. 7A).

#### ⚠ Warning

The high pressure water jet generates a reaction force in the lance. Keep a firm grip on the lance handle.

- 4) Press the trigger on the gun and begin washing.

#### ⚠ Warning

In water cleaners with the "Total Stop" system, the motor starts and stops when the lever on the lance handle is actioned or released.

#### ⚠ Danger

Do not block the handle lever in the delivery position.

### SIGNALS AND FAULTS DISPLAYED.

(If featured).

- Machine shutdown due to no water supply connection: Slow flash.
- Machine shutdown due to minor leaks from high pressure circuit: Fast flash.

Indicator light on steady, 200h programmed maintenance interval expired. The light will go off following maintenance by the authorised service centre. (Fig. 7B).

### IMPORTANT!

To eliminate any impurities or air bubbles from the water circuit we advise starting the cleaner for the first time without the lance and letting the water run out for a few seconds.

Impurities could block the nozzle and cause malfunction (Fig. 8).

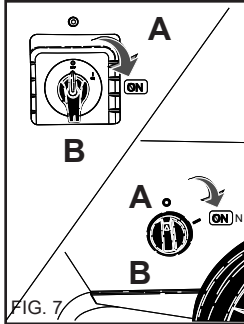
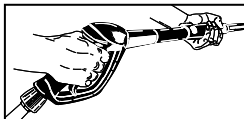


FIG. 7



### USING THE ACCESSORIES.

The high pressure washer has a nozzle with a flat 25° angle jet for cleaning large surfaces.

#### ⚠ Warning

Aim the jet from a certain distance to avoid damage caused by the high pressure.

#### ROTARY HEAD (optional accessory)

The high pressure washer can be fitted with a head with rotary nozzle to clean the most stubborn dirt.

#### ⚠ Danger:

Aim the jet from a certain distance to avoid damage caused by the high pressure. Do not aim the jet at people, animals or electrical sockets.

### STOPPING THE CLEANER

- 1) After using with detergent, flush out the intake circuit; place the detergent suction hose (fig. 9) in a tank of clean water and let the pump run for 1 minute with the dosing tap turned fully on and the lance in detergent delivery condition.
- 2) Stop the cleaner by turning the selector switch to pos. "0" (fig. 7A).
- 3) Discharge the pressure from the H.P. hose by pressing the trigger on the gun.
- 4) Disconnect the water cleaner from the mains electricity supply via the omnipolar switch or by unplugging the plug from the socket.
- 5) Turn off the water supply tap (fig. 4A).

#### ⚠ Warning

- If the water cleaner is left, even temporarily, turn it off by using the omnipolar switch or by unplugging the plug from the socket.

- Water cleaners with the "Total Stop" device should be considered as off when the omnipolar switch is in the "O" position or the plug is unplugged from the socket.

- When the water cleaner is not used, close the safety device on the handle (fig. 10).

- Dry use of the water cleaner causes serious damage to pump gaskets.

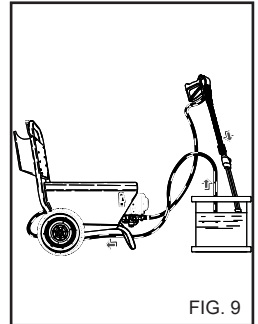


FIG. 9

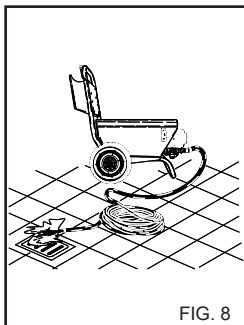


FIG. 8

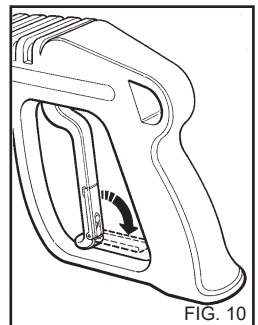


FIG. 10

### ATTACHING THE DETERGENT INTAKE KIT (fig. 11) (optional accessory)

To suck up the detergent solution, fit the kit supplied on to the water output of the high pressure washer.

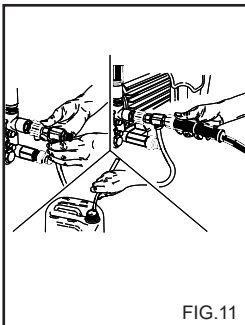


FIG.11

### USE OF THE DOUBLE LANCE (fig. 12) (optional accessory)

The double lance allows the operator to select a low or high pressure jet. The pressure is selected with the gun in pos. 1. High pressure: pos. 2. Low pressure and detergent intake: pos. 3.

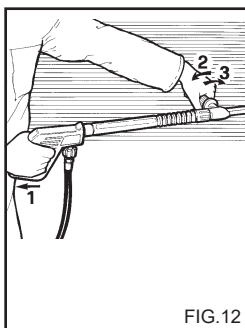


FIG.12

### USING THE ADJUSTABLE HEAD (Fig.13) (optional accessory)

The adjustable head enables you to select a low or high pressure jet. The pressure is selected by rotating the head.

High pressure pos. A.  
Low pressure pos. B.



FIG.13

## ADVICE ON USING DETERGENTS

### ⚠ Warning

This cleaner has been designed for use with the detergents supplied or recommended by the manufacturer.

The use of other detergents or chemicals may influence the safety of the cleaner.

- 1) For environmental compatibility, we recommend a reasonable use of detergents, according to the instructions on the pack.
- 2) From the range of recommended products, choose the one most suited to the washing job to be done and dilute it with water according to the instructions on the pack or in the catalogue of the detergents most suited for the type of hot or cold water cleaner.
- 3) Ask your dealer for the detergents catalogue.

### OPERATING PHASES FOR CORRECT CLEANING WITH DETERGENTS.

1) Prepare the solution of detergent at the concentration most suitable for the type of dirt and the surface that is to be washed.

2) Detach the extension from the handgrip and fit the double lance or lance with adjustable head (fig. 14). Operate the high pressure washer, activate the detergent suction control on the lance (figs. 12, 13) and spray the surface to be washed, working from the bottom upwards.

Leave to work for a few minutes..

3) Rinse the whole surface well from top to bottom at high pressure.

4) After using with detergent, flush out the intake circuit; place the detergent suction hose (fig. 8) in a tank of clean water and let the pump run for 1 minute with the dosing tap turned fully on and the lance in detergent delivery condition.

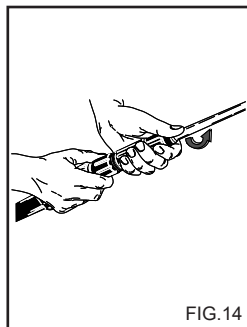


FIG.14

## MAINTENANCE

**ONLY THE OPERATIONS AUTHORIZED IN THIS INSTRUCTIONS MANUAL MAY BE CARRIED OUT BY THE USER.**

**ALL OTHER OPERATIONS ARE FORBIDDEN.**

### **⚠ Danger**

Maintenance of the high pressure pump, electrical parts and all components with a safety function must be carried out by an authorised technical service centre only.

The manufacturer is not liable in case of tampering, changes, incorrect repairs or maintenance carried out on the machine by a third person not provided with the manufacturer's authorization.

All documents pertaining to the repair and planned service interventions, as well as any certificates concerning the device installation according to the laws in force (IEC 60364-1 standard) must be kept carefully by the user, together with the Instructions Manual.

Periodically, at least once a year, have the safety devices and the rated values checked at one of our technical service centres.

### **⚠ Danger**

Before performing any maintenance operations, disconnect it from the water supply (by closing the tap) and the mains electricity supply (by turning off the omnipolar switch and unplugging it from the mains socket) (see chapters on connecting to the mains electricity and water supplies).

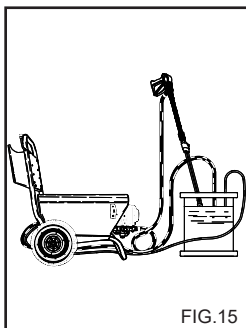
After completing the maintenance, before reconnecting the high pressure washer to the mains electricity and water supplies, make sure the panels are replaced correctly and fixed with the screws.

**Failure to do so may cause a risk of electric shock.**

### **PRECAUTIONS AGAINST FROST**

**The cleaner must not be exposed to frost.**

If the cleaner is left in premises where it is exposed to frost, when work is over or for storage, antifreeze must be used to prevent serious damage to the hydraulic circuit.



### **OPERATIONS FOR USING ANTIFREEZE (fig. 15)**

- 1) Turn off the water supply (tap), disconnect the hose and run the cleaner until it is completely empty.
- 2) Stop the water cleaner with the ON/OFF switch in the "O" position.
- 3) Prepare a container with the solution of antifreeze.
- 4) Immerse the tube in the container with the anti-freeze solution.
- 5) Start the water cleaner with the ON/OFF switch in the "I" position.
- 6) Start the cleaner and let it run until antifreeze comes out

through the lance.

- 7) Suck up antifreeze with the detergent intake system too.
- 8) Switch off the cleaner and disconnect the electric power by switching off the omnipolar switch, via the omnipolar switch or by unplugging the plug from the socket.

### **⚠ Warning**

Antifreeze may cause pollution. Always follow the instructions on the pack closely. (Do not dispose of in the environment).

### **CHECKING PUMP OIL LEVEL AND OIL CHANGE**

From time to time check the oil level in the high pressure pump by means of the sight glass (fig. 16A) or the dipstick (fig. 16B).

If the oil has a milky appearance, call the technical service centre immediately. Change the oil after the first 50 hours' work and subsequently every 500 hours or once a year.

Proceed as follows:

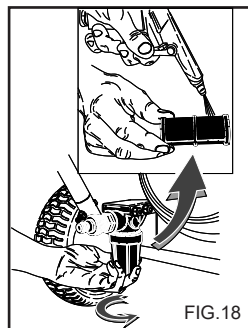
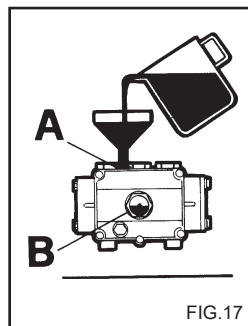
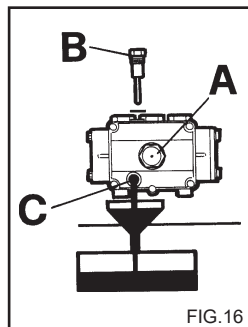
- 1) Unscrew the drain cap situated under the pump (fig. 16C).
- 2) Unscrew the cap with the dipstick (fig. 16).
- 3) Let all the oil drain off into a container and deliver it to an authorized oil collection and disposal centre.
- 4) Replace the drain screw and pour fresh oil in through the filling cap on top (fig. 17A) until it reaches the level indicated on the sight glass (fig. 17B).

**For water cleaners without oil drain bung, contact our technical service centre for replacement.**

**Use only SAE 15 W40 oil.**

### **CLEANING THE WATER FILTER**

Clean the water intake filter regularly and free it from any impurities (fig. 18).



## CHANGING THE HIGH PRESSURE NOZZLE

### Information

The high pressure nozzle fitted on the lance must be changed from time to time, as this component is subject to normal wear during use. Wear may generally be detected by a drop in the working pressure of the cleaner. To replace it, consult your supplier and/or dealer for instructions.

## TABLE OF ROUTINE MAINTENANCE TO BE PERFORMED BY THE USER.

### Description of operations:

Check power cable - pipes - high pressure connectors	Each use
1st oil change in H.P. pump	After 50 hours
Subsequent changes in H.P. pump	Every 500 hours
Clean water filter	Every 50 hours

## TABLE OF EXTRAORDINARY MAINTENANCE TO BE PERFORMED BY THE TECHNICAL SERVICE CENTRE.

### Description of operations:

Change seals on H.P. pump	Every 500 hours
Change lance nozzle	Every 200 hours
Calibrate and check the safety devices	Once a year

### IMPORTANT:

These intervals refer to normal working conditions. For heavy duty use decrease the interval for each job.

**For maintenance and/or repairs, use only original spare parts which offer the greatest characteristics of quality and reliability. Failure to use original spare parts absolves the manufacturer from all liability and transfers it to the person carrying out the operation.**

### PERIODS OF INACTIVITY

If the machine is to remain inactive for a long period, disconnect the supply sources, drain the tank(s) of all the operating fluids and protect any parts that could be damaged by the accumulation of dust.

Grease the parts that could be damaged by drying out, such as the supply hoses. When bringing back into use, ensure that there are no cracks or cuts in the water supply hoses.

Oil and chemical products must be disposed of according to current legislation.

### SCRAPPING

If you no longer wish to use the water cleaner, you should render it unusable by removing the power cable.

You should also make sure that all potentially hazardous parts of the appliance are made safe, particularly for children who could play with the unused water cleaner.

This product is classified as WEEE type special waste and is covered by the requisites of the new environmental protection regulations. It must be disposed of separately from ordinary waste in compliance with current legislation and standards.

**Do not use parts dismantled for scrap as spare parts.**

## TROUBLE-SHOOTING

**Before carrying out any operations, disconnect the cleaner from the power (via the omnipolar switch or by unplugging the plug from the socket) and water supply.**

FAULTS	CAUSES	REMEDIES
When the switch is turned the cleaner does not start.	Faulty electric connection. Thermal protection has tripped.  The omnipolar switch has tripped.	Check the mains voltage. Reset (if it trips again, apply to the technical service centre).  Reset (if it trips again, apply to the technical service centre).
No jet or leakage from high pressure water circuit. After 3 min., the water cleaner stops and the indicator lights on the control panel flash.	Faulty water circuit connection. Clogged water filter. Mains tap turned off. Leakage from high pressure circuit.	Check it. Clean it. Turn it on. Apply to our technical service centre.
The pump turns but does not reach the rated pressure.	Water intake filter blocked. Faulty water circuit connection. Pressure regulation valve is set at minimum. Lance nozzle is worn. Detergent intake device on the lance is turned on. Dirty or worn valves.	Clean it. Check it. Regulate it.  Apply to our technical service centre. Turn it off.  Apply to our technical service centre.
When the lance is open, the pressure drops and rises. After 10 pulses, the water cleaner stops and indicator light "B" flashes.	The nozzle is clogged or deformed.  Insufficient supply.	Clean or consult our technical service centre.  Check it.
In by-pass or total stop phase, the water cleaner shuts down and indicator light "B" flashes.	Micro-leaks of water from the high pressure circuit.	Apply to our technical service centre.
Insufficient detergent suction.	No detergent in the tank. Control on the lance not switched on.	Fill the detergent tank. Set the control on the lance.
Presence of water in oil.	Gaskets worn	Apply to our technical service centre.
Water leaks from head.	Gaskets worn.	Apply to our technical service centre.

**N.B. To reset the indicators on the control panel, rotate the main switch "A" to the "O" position and then to the "I" position.**

### IMPORTANT:

**For maintenance and/or repairs, use only original spare parts which offer the greatest characteristics of quality and reliability. Failure to use original spare parts frees the manufacturer from all responsibility.**






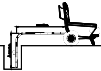








**“CE” CONFORMITY DECLARATION**

We declare on our own responsibility that the product to which this declaration refers is in accordance with the following European Community Directives:

**2006/42/CE - 2014/30/UE - 2000/14/CE - 2011/65/UE**

## Technical data

	• Model		Mod. CW1900-10EI	Mod. CW3000-17EI	Mod. CW3000-21EI
	• Power supply	~ v Hz	1 230 - 240 50	3 230 - 4/415 50	3 230 - 4/415 50
	• Absorbed power	kW W	3,0 3000	7,5 7500	7,5 7500
	• Pressure	bar psi	40 - 130 580 - 1900	40 - 200 580-2900	40 - 150 580-2900
	• Flow rate	l/h gph	5 - 10 80 - 158,5	6 - 17 95 - 265	6 - 21 95 - 332
	Water supply with self-priming system		NO	YES	YES
	• High pressure hose	m ft	10 32,8	10 32,8	10 32,8
	• Power cable	m ft	5,5 18	5,5 18	5,5 18
	• Lance thrust - Vibr.	m/s <sup>2</sup>	27 < 2,5	53 < 2,5	60 < 2,5
	• Noise	Lw dB (A)	80 94 (kp. 2dB)	85 98 (kp. 2dB)	86 99 (kp. 2dB)
	• Weight	kg lb	89,0 196,0	89,0 196,0	89,0 196,0
	• Dimensions	cm in	78x59x90 30,7x23,3x35,4		

**JET** WAVE<sup>®</sup>

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