

# K130

## USER MANUAL



**PUMPS AUSTRALIA**  
**BETTER BY DESIGN**



1800 790 915



[pumpsaustralia.com.au](http://pumpsaustralia.com.au)



Thank you for purchasing a quality Pumps Australia Unit. We reserve the right to make changes at any time without incurring any obligation.

**Owner/User Responsibility:** The owner and/or user must have an understanding of the manufacturer's operating instructions and warnings before using this Stand Alone Boiler. Warning information should be emphasized and understood. If the operator is not fluent in English, the manufacturer's instructions and warnings shall be read to and discussed with the operator in the operator's native language by the purchaser/owner, making sure that the operator comprehends its contents.

Owner and/or user must study and maintain for future reference the manufacturers' instructions.

The operator must know how to stop the machine quickly and understand the operation of all controls. Never permit anyone to operate the engine without proper instructions.

This manual should be considered a permanent part of the machine and should remain with it if machine is resold. When ordering parts, please specify model and serial number. Use only identical replacement parts. This machine is to be used only by trained operators.

### IMPORTANT SAFETY INFORMATION



**WARNING: To reduce the risk of injury, read operating instructions carefully before using.**

1. Read the owner's manual thoroughly. Failure to follow instructions could cause malfunction of the machine and result in death, serious bodily injury and/or property damage.

2. Know how to stop the machine and bleed pressure quickly. Be thoroughly familiar with the controls.

3. Stay alert — watch what you are doing.

4. All installations must comply with local codes. Contact your electrician, plumber, utility company or the selling distributor for specific details. If your machine is rated 250 volts or less, single phase will be provided with a ground fault circuit interrupter (GFCI). If rated more than 250 volts, or more than single phase this product should only be connected to a power supply receptacle protected by a GFCI



**WARNING: Keep wand, hose, and water spray away from electric wiring or fatal electric shock may result.**

5. To protect the operator from electrical shock, the machine must be electrically grounded. It is the responsibility of the owner to connect this machine to a UL grounded receptacle of proper voltage and amperage ratings. Do not spray water on or near electrical components. Do not touch machine with wet hands or while standing in water. Always disconnect power before servicing.



**WARNING: Flammable liquids can create fumes which can ignite, causing property damage or severe injury.**

**WARNING: Risk of explosion — Operate only where open flame or torch is permitted.**

6. In oil burning models, use only kerosene, No. 1 home heating fuel, or diesel. If diesel is used, add a soot remover to every tankful.



**WARNING: Risk of fire — do not add fuel when the product is operating or still hot.**

**WARNING: Do not use gasoline crankcase draining or oil containing gasoline, solvents or alcohol. Doing so will result in fire and/or explosion.**

7. Oil burning appliances shall be installed only in locations where combustible dusts and flammable gases or vapours are not present. Do not store or use gasoline near this machine.

8. Do not allow acids, caustic or abrasive fluids to pass through the pump.

9. Never run pump dry or leave spray gun closed longer than 1-2 minutes.

10. Keep operating area clear of all persons.



**WARNING: High pressure spray can cause paint chips or other particles to become airborne and fly at high speeds. To avoid personal injury, eye, hand and foot safety devices must be worn.**

11. Eye, hand, and foot protection must be worn when using this equipment.



|   |  |
|---|--|
|   | <p><b>WARNING:</b> This machine exceeds 85 dB appropriate ear protection must be worn.</p>   |
|   | <p><b>WARNING:</b> Hot discharge fluid. Do not touch or direct discharge stream at person(s)</p>   |
|   | <p><b>WARNING:</b> This machine produces hot water and must have insulated components attached to protect the operator.</p>  |
|   | <p><b>WARNING: Risk of injury. Hot surfaces can cause burns. Use only designated gripping areas of spray gun and wand. Do not place hands or feet on non-insulated areas of the pressure washer.</b><br/>12. To reduce the risk of injury, close supervision is necessary when a machine is used near children. Do not allow children to operate the pressure washer. This machine must be attended during operation.</p>  |
|   | <p><b>WARNING: Grip cleaning wand securely with both hands before starting. Failure to do this could result in injury from a whipping wand.</b><br/>13. Never make adjustments on machine while in operation.<br/>14. Be certain all quick coupler fittings are secured before using pressure washer</p>   |
|   | <p><b>WARNING: High pressure developed by these machines will cause personal injury or equipment damage. Keep clear of nozzle. Use caution when operating. Do not direct discharge stream at people, or severe injury or death will result.</b></p>  |
|   | <p><b>WARNING: Protect machine from freezing.</b><br/>15. To keep machine in best operating conditions, it is important you protect machine from freezing. Failure to protect machine from freezing could cause malfunction of the machine and result in death, serious bodily injury, and/or property damage. Follow storage instructions specified in this manual.</p>   |
|   | <p><b>WARNING: Risk of asphyxiation. Use this product only in a well ventilated area.</b><br/>16. Avoid installing machines in small areas or near exhaust fans. Adequate oxygen is needed for combustion or dangerous carbon monoxide will result.</p>  |
| <p>17. Manufacturer will not be liable for any changes made to our standard machines or any components not purchased from Pumps Australia Pty Ltd.<br/>18. The best insurance against an accident is precaution and knowledge of the machine.</p> |  |
|   | <p><b>WARNING: Be extremely careful when using a ladder, scaffolding or any other relatively unstable location. The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces.</b><br/>20. Do not overreach or stand on unstable support. Keep good footing and balance at all times.<br/>21. Do not operate this machine when fatigued or under the influence of alcohol, prescription medications, or drugs.</p> |



## 2. LOCATION OF COMPONENTS AND CONTROLS

| Pos. | Description                |
|------|----------------------------|
| 1    | High tension cable         |
| 2    | Electric wire box          |
| 3    | Electric motor switch      |
| 4    | Burner switch              |
| 5    | Electric motor             |
| 6    | High pressure pump         |
| 7    | Valve pressure regulating  |
| 8    | Water inlet                |
| 9    | Pressure switch            |
| 10   | Transformer                |
| 11   | Safety valve               |
| 12   | Fuel pump                  |
| 13   | Motor fan                  |
| 14   | High-Pressure Water Outlet |
| 15   | Fuel tank                  |
| 16   | Tank cap                   |
| 17   | Burner                     |
| 18   | Chimney unloaded smokes    |

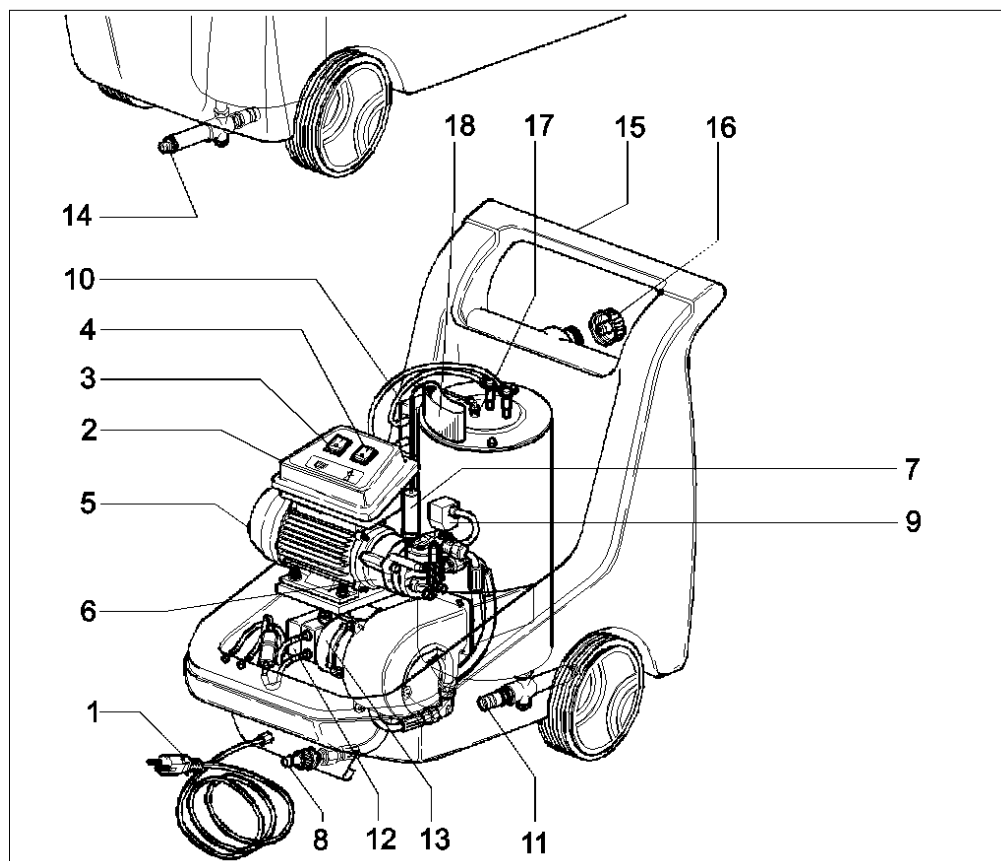


Fig.1



## 3.1 DIMENSIONS

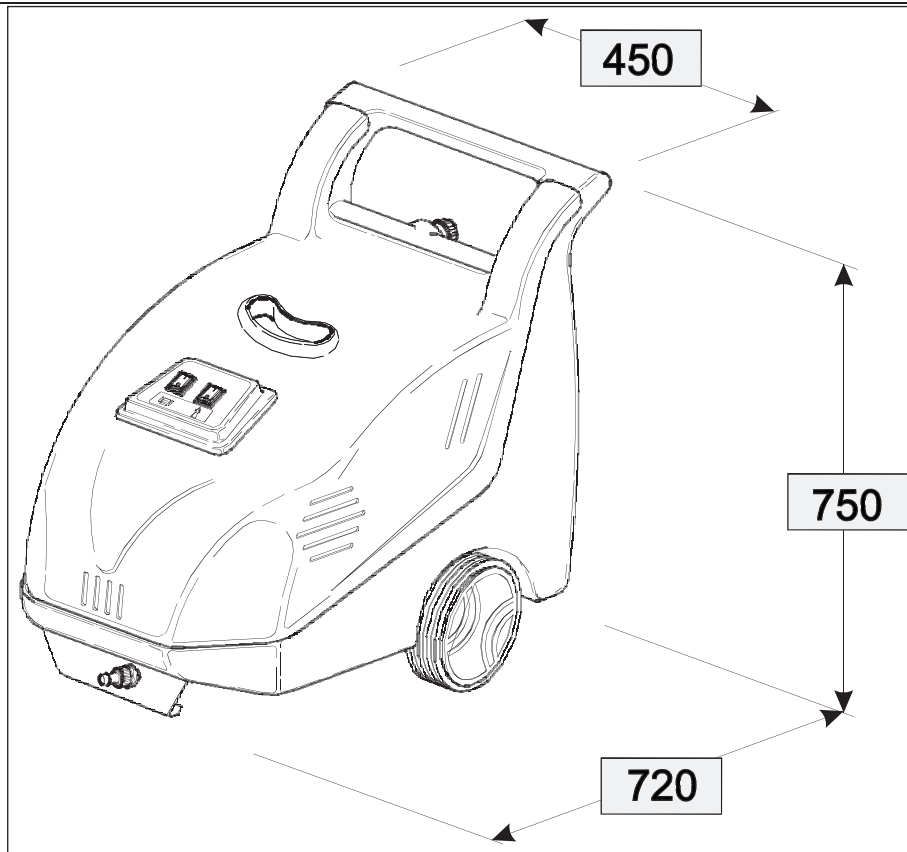


Fig.2

## 3.2 TECHNICAL FEATURES

|              |       |     |
|--------------|-------|-----|
| Pressure max | Bar   | 130 |
| Flow max     | L/min | 7.4 |
| Temperature  | C°    | 70° |
| Motor        | HP    | 1.8 |
|              | KW    | 1.3 |
|              | Volt  | 230 |
| Weight       | Kg    | 42  |
| Fuel tank    | Lt    | 17  |



### 3.3 IDENTIFICATION

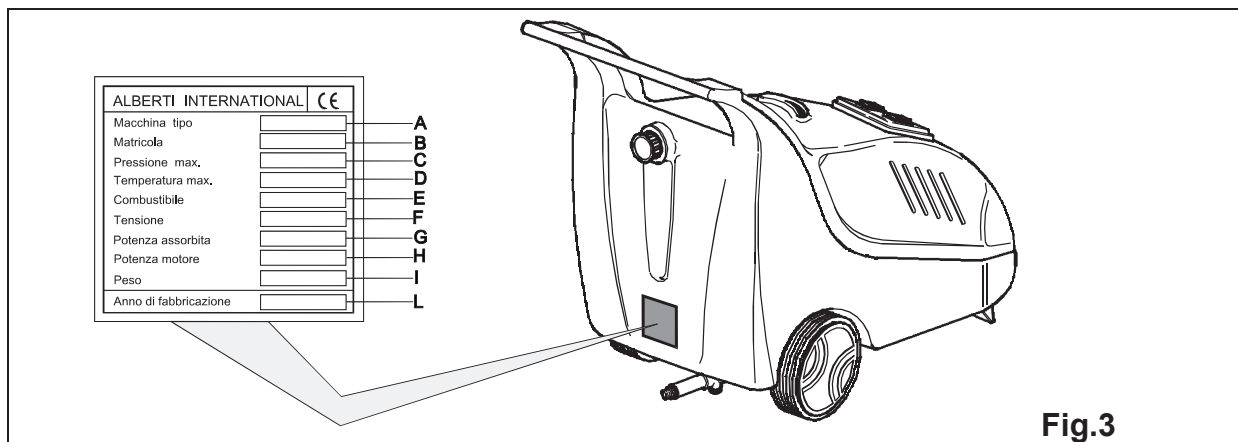


Fig.3

| POS | DENOMINATION          | POS | DENOMINATION        |
|-----|-----------------------|-----|---------------------|
| A   | Cleaner type          | F   | Tension             |
| B   | Identification number | G   | Power absorbed      |
| C   | Max. pressure         | H   | Power motor         |
| D   | Max. temperature      | I   | Cleaner weight      |
| E   | Type of fuel          | L   | Year of manufacture |

### 3.4 STICKERS, WARNINGS, AND INFORMATION LABELS

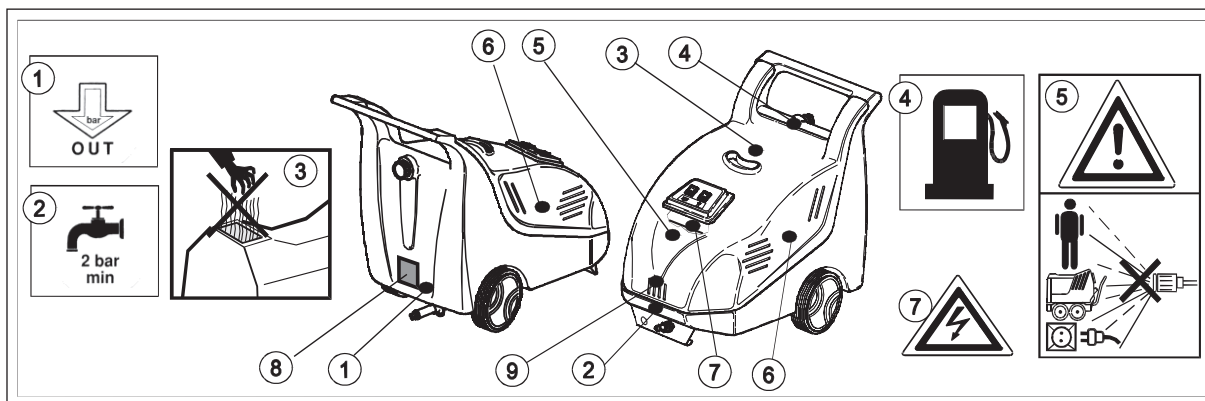


Fig.4

| POS | DENOMINATION  | POS | DENOMINATION                    |
|-----|---|-----|---------------------------------|
| 1   | Connection to the lance   | 6   | Cleaner type                    |
| 2   | Water feeding   | 7   | Electrocution! Wiring box       |
| 3   | Exit gas of combustion at high temperature  | 8   | Identification plate            |
| 4   | Diesel Fuel   | 9   | Pumps Australia Pty Ltd (brand) |
| 5   | Don't apply the high-pressure water jet towards people, animals, wiring installations, etc... | 10  |                                 |





## 4 NOTICES



It is recommended you read very carefully the present manual in every part of this, before proceeding to use the high-pressure cleaner.



In case of necessity, please contact our technical support team.



Don't execute repairing intervention. Such interventions executed by **non-qualified** personnel could alter the safety level of the high-pressure cleaner.



Develop all the work and maintenance phases in conformity to the laws in force concerning the sanitary and safety regulations of the job.

The high-pressure cleaner is exclusively designed for the cleaning and washing operations with hot or cold water of objects, things, or surfaces that are fit to the mechanical treatment of the jet of high-pressure water and the eventual action of chemical products.

Don't ever leave the cleaner unguarded in the workplace.

The stickers and identification plates exposed on the cleaner must be always well legible.

Don't use the cleaner for any purpose other than for which it has been built.

In case of cleaner demolition, please follow the laws in force in the country in which this operation is performed (presence of oils and plastic materials).

The high-pressure cleaner is delivered ready to be used.

For transport and package reasons, some accessories, as the lance and the high-pressure hose, are delivered disassembled.

For the assembly of the unit, please follow the instructions contained in this manual.

Before using the cleaner, verify that the cleaner is correct, as requested.

Before connecting the plug of high-pressure cleaner to the tension, please be sure that the current corresponds to the tension reported on the identification plate. (picture.3 page.5)



### 4.1 JOB RULES



The personnel in charge of the use of the high-pressure cleaner, must be adult and responsible.

Whether working or developing maintenance or preparation operations, is recommended to use accident prevention clothes.



Be sure that, during the job phases, that people are not in the proximity.



Be sure that the high-pressure cleaner is constantly fed with water. Dry running causes serious damage to the seal system.

Do not leave the cleaner in an area where the temperature is very low with the possibility of it becoming frozen.

Avoid the passage of vehicles on the high-pressure hose.

The chimney terminal must be not obstructed.

Do not lay objects or the lance in the proximity of the exhaust smoke.



The exhaust smoke must be considered dangerous, both for gases of combustion and for the high temperature.

To avoid burns, please inform the users adequately.



It is essential, to avoid placing the cleaner while it is running for more than 5 minutes with the gun closed; after this time the water temperature increases quickly producing serious damage to the seal system.

Unload the residual pressure of the high-pressure hose through the gun every time the cleaner is switched off.

Never put your hands in front of the lance whilst working.



Do not use different fuel from that foreseen by the manufacturer.





## 4.2 SAFETY RULES

Do not damage or remove protections on the high-pressure cleaner.

The wiring connections must be executed by a qualified technician.



Never drag the tension cable to disconnect the plug and don't drag the high-pressure hose to move the cleaner.

During the running of a high-pressure cleaner, avoid covering it or placing it in areas where there isn't good ventilation.



When working in closed areas is obligatory to install a chimney where the exhaust gases are taken outside.

Only use clean water.



Don't use the high-pressure cleaner in the rain or case of storms.



Do not undertake any maintenance on the high-pressure cleaner before having removed current, disconnecting the plug from the socket.  
Do not make any alterations to the electric cable and always verify that is not damaged.

Never direct the high-pressure jet water towards people, animals, wiring installations, or on the cleaner.

The high-pressure cleaner is supplied with idle wheels, so avoid placing it on ramps or tilted floors.

The use of extension cables is discouraged. In case the user is necessary, please adopt the conforming laws in force.



## 5. INSTALLATION

When first installed, or after a long time of inactivity, connect just the water suction hose for a couple of minutes to enable any impurities to be removed from the high-pressure hose.

### WIRING CONNECTION

Check if the grid is the same for the high-pressure cleaner tension, reported on the identification plate (fig.3 pag.5).

Be sure that the tension provided is an “earth” connection and a safety switch.

### FUEL SUPPLY

Fill the fuel tank with combustible as reported on the identification plate (Diesel) (see fig.5).

### WATER CONNECTION

Connect the water feeling hose (pos. 1) to the entrance nipple (pos.2). See fig.6 on page 9.

It is recommended to use a reinforced hose with an internal diameter of 10mm at least. The water inlet must be of 15lt/min. at least and must not have a temperature in the entry above 60°C

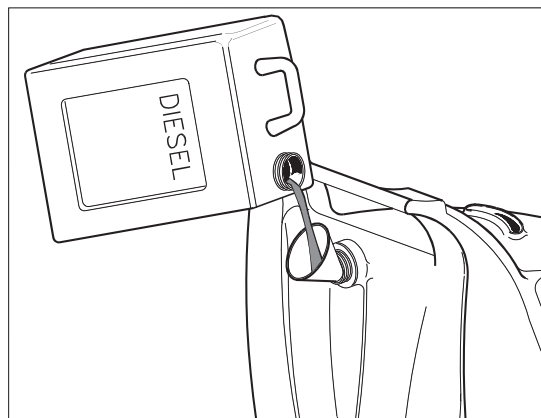


Fig.5

Connect the high-pressure hose (pos.3 fig.6) to the gun (pos.4) and with the other end of the high-pressure hose to the outlet nipple (pos.5) locking it in firmly.

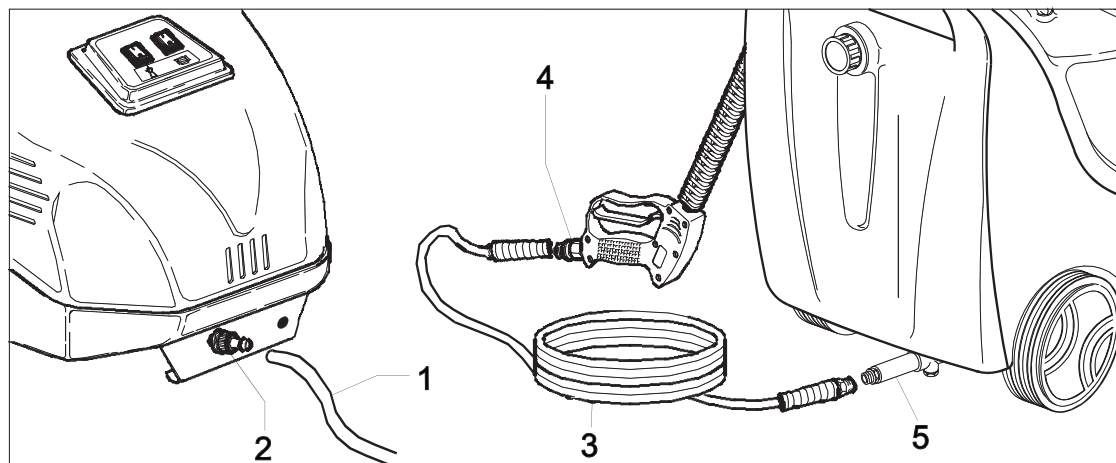


Fig.6



## LANCE ASSEMBLY

The lance assembly is performed in a fast and easy way.

Grip the gun with your hand (pos.1) and with the other hand grip the lance, (pos.2) already supplied with a nozzle, insert it onto the gun as shown in the picture.7, ensure that it is locked on tightly with the nut (pos.3).

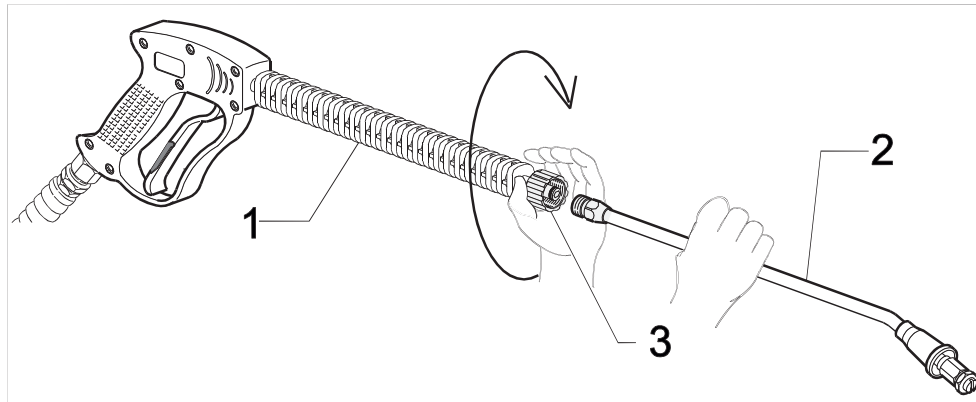


Fig.7

## 6. CLEANER RUNNING

Verify that the electric tension and the amperage correspond to the high-pressure cleaner requirements.

The high-pressure cleaner must be connected to the feeding fixed point provided of an “earth” contact, checked by breaking devices against the surcharge and leakage of magnetic force.

Verify that the cleaner is placed on a flat surface (not tilted) and stable.

Be sure that there is fuel inside the tank.

### COLDWATER WORKING

Open the water faucet to feed the high-pressure cleaner.



Push the switch (pos.1) of the electric motor at two positions I-O on the position I to permit the cleaner to work with cold water. (See fig.8).

### HOT WATER WORKING

To have hot water, after having switched on the electric motor, push the switch pos. 2 that turns on the burner. (See Fig.8).

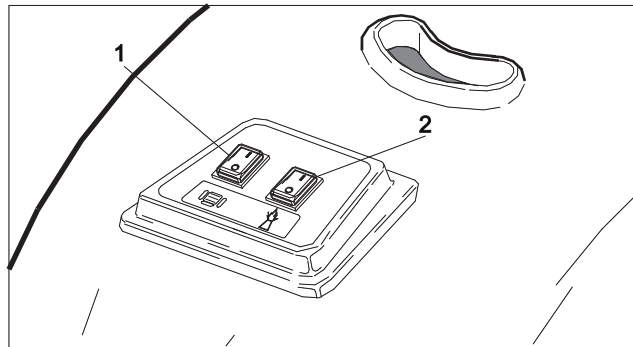


Fig.8

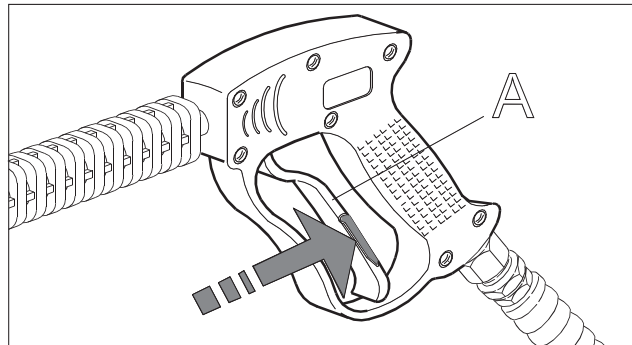


Fig.9

Wait a few minutes to enable the water to reach the right temperature.

Grip the lance and push on the lever A as shown in fig.9 so, start to work.

Verify that the water jet is uniform; in not, disassemble the nozzle, clean it, then reassemble it...



## 7. CLEANER STOP

To stop the high-pressure cleaner, it is necessary to release the gun lever, pos. A fig. 10, then push the burner switch, pos.2 fig.8 pag.10.

While the high-pressure cleaner is not working, grip the gun, push the lever A for a few moments to unload the remaining pressure in the hose.

Put the gun safety lever (B) in the lock position to avoid the possibility of the gun accidentally going off the next time it is started, push down to unlock. (See fig.10).

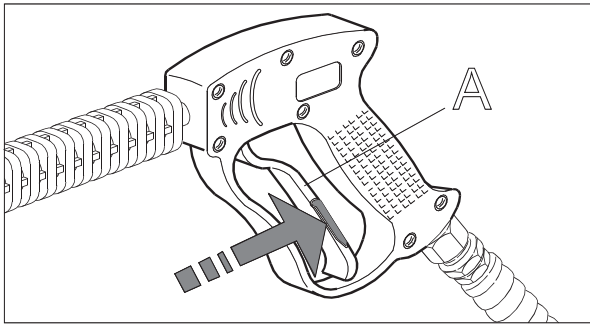


Fig.10

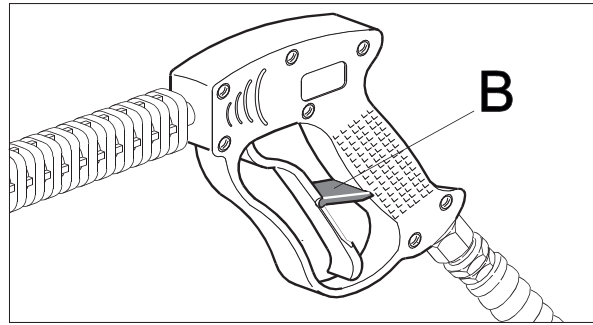


Fig.11

### HIGH-PRESSURE CLEANER LAYOUT

At the end of the job, after having unloaded the remaining hose pressure and having inserted the gun safety lever, re-wrap the electric cable and the high-pressure hose in a way to avoid damage. Please place the cleaner in a place protected from ice and frost and the possibility of use by other people.



## 8. MAINTENANCE

Before intervening on the high-pressure cleaner, and to prepare for any maintenance, unload the hose pressure (See paragraph 7 CLEANER STOP) remove the electrical plug and the hose from the water faucet.

### EVERY 2 WEEKS OR 50 WORK HOURS

Check and clean the air jet the filter located inside the water inlet nipple (position A fig.12 pag.12).

### EVERY MONTH OR 100 WORK HOURS

Clean the combustion head by unscrewing the three cap nuts, and check the electrodes. (Fig.12 pag.12)

### EVERY MONTH OR 300 WORK HOURS

Replace the fuel filter. (Pos.B fig.12 pag.12).

Clean the fuel pump filter (Operation performed by qualified personnel only).

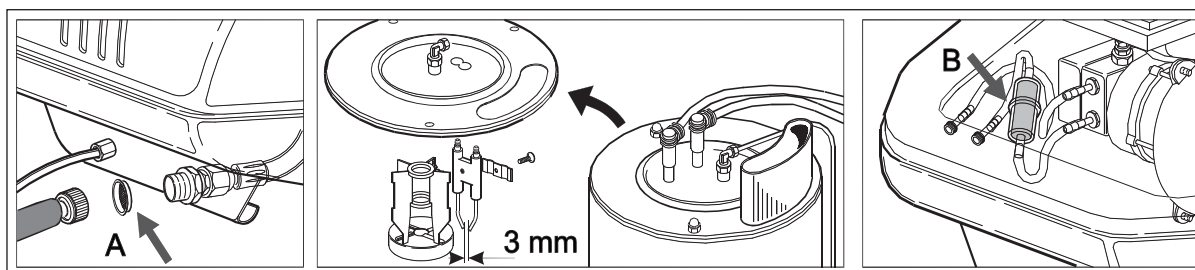


Fig.12

## COIL INTERNAL CLEANING

The coil cleaning must be done periodically according to the hardness of the water you are using. Dilute, in a container, 1 Kg of chemical solution in 10/15 l. of water.

- Connect the suction water hose A to the container faucet B. (See fig.13).
- Insert into the container the end of the high-pressure hose C.
- The high-pressure cleaner must be running for approximately 20 minutes with cold water.
- Finishing the cleaning phase, disassemble the hose A from the faucet B and connect it at the water system E. (See fig.13).
- Remove the end of the high-pressure hose C from the container and connect it to the gun P. (See fig.13).
- Disassemble the nozzle from the lance U, open the faucet E, run the cleaner with the lance but without the nozzle until the water runs clear from the hose.
- Re-assemble the nozzle U on the lance and start to work with the cleaner.

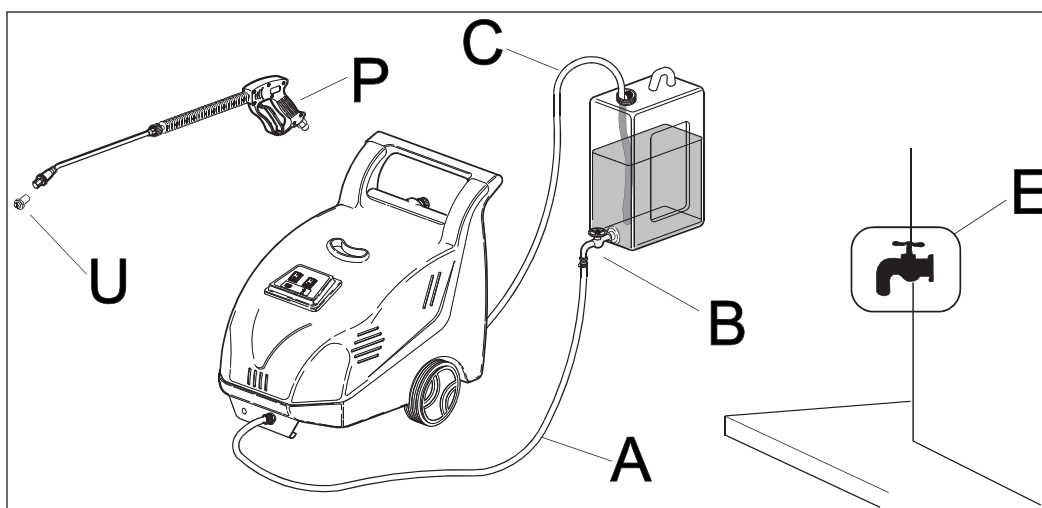


Fig.13





## 9. HIGH-PRESSURE CLEANER DEMOLITION

In case of demolition of the high-pressure cleaner, please respect the law in forces in the Country when you are disposing of the cleaner.

The high-pressure cleaner is composed of metals and plastic materials that may be recyclable.

## 10. WATER DIAGRAM

| POS | DENOMINATION      | POS | DENOMINATION        |
|-----|-------------------|-----|---------------------|
| 1   | Water faucet      | 7   | Chimney             |
| 2   | Motor pump        | 8   | High-pressure hose  |
| 3   | Pressure valve    | 9   | Gun                 |
| 4   | Pressure switch   | 10  | Water opening lever |
| 5   | Outer case boiler | 11  | Lance               |
| 6   | Coil              | 12  | Nozzle              |

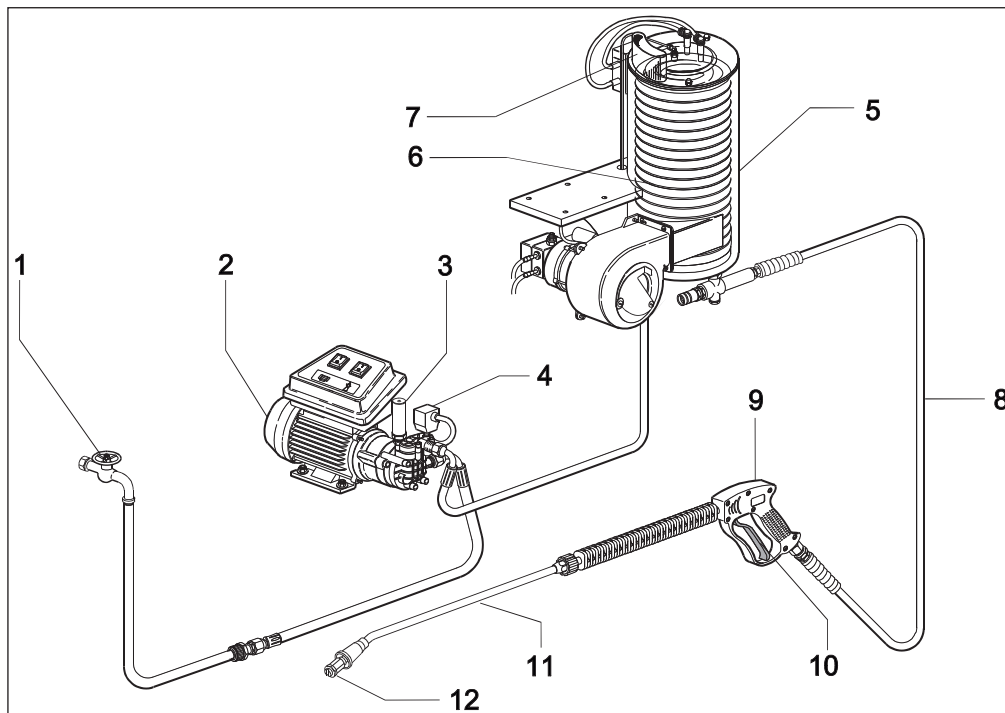


Fig.14



## 11. ELECTRIC DIAGRAM

In picture 15 is reported the electric diagram.

### SINGLE-PHASE BYPASS

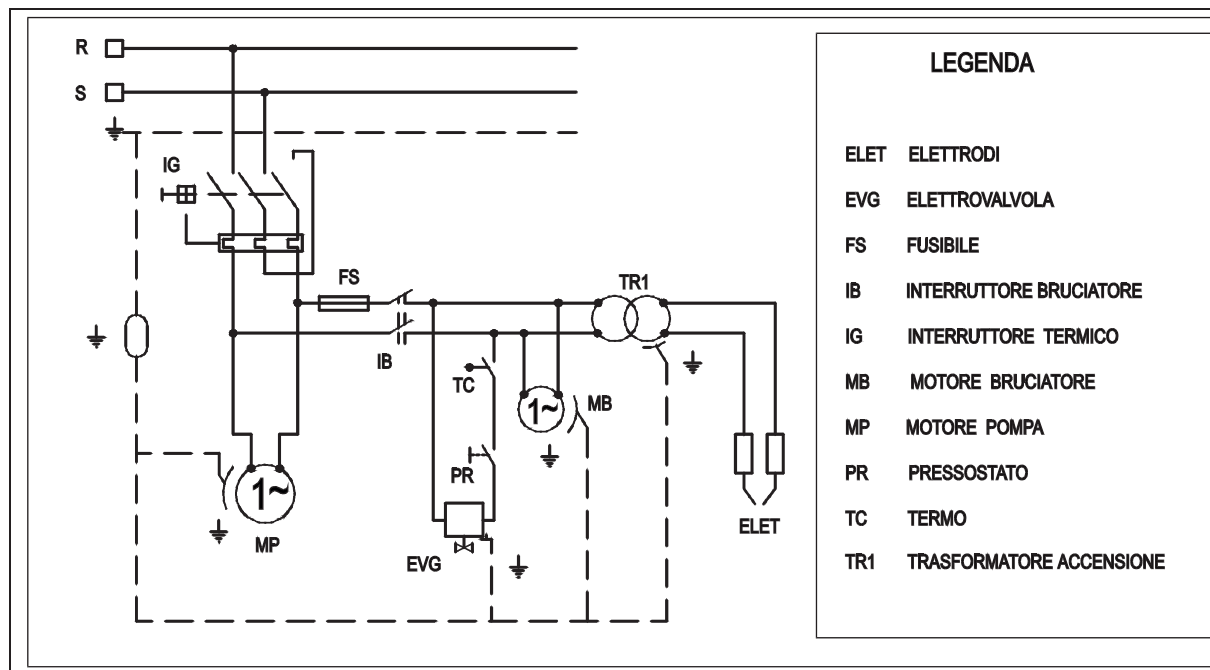


Fig.15.

### SINGLE-PHASE TOTAL - STOP

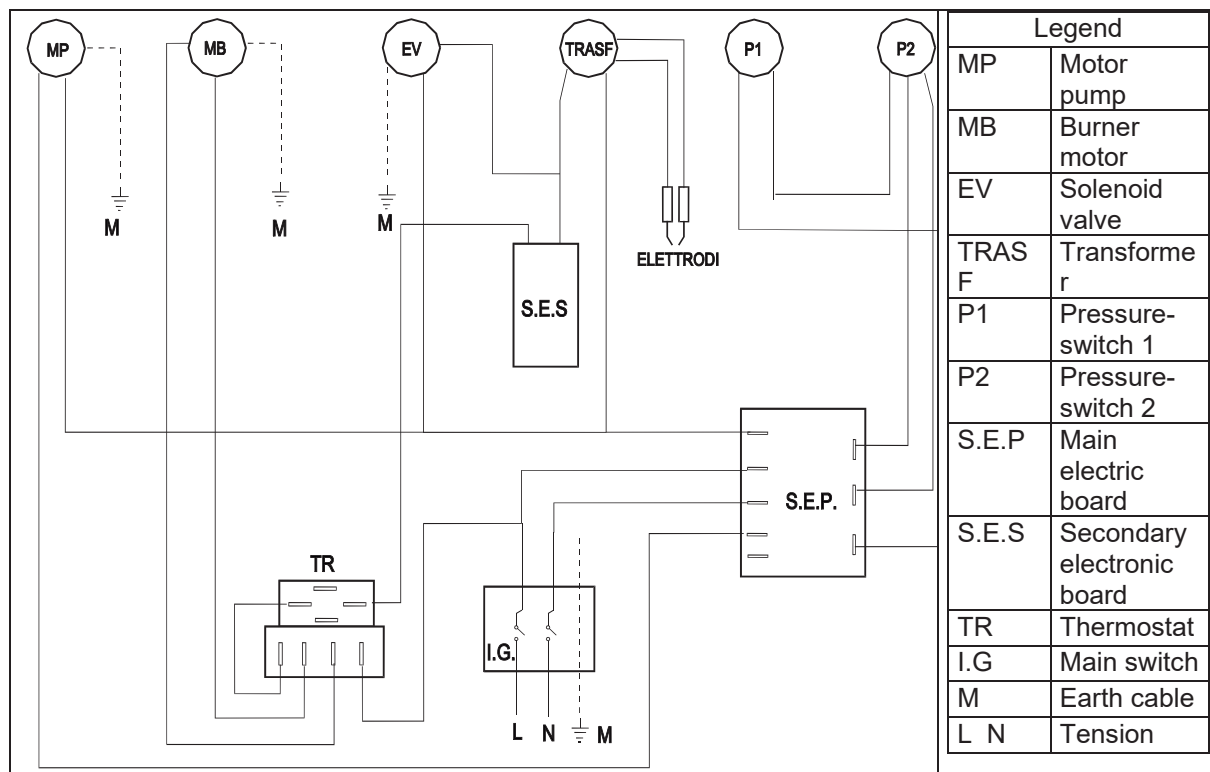


Fig.15.



## 12. Troubleshooting

All maintenance and repairs must be done with the electric plug disconnected and performed by a person qualified to do so.

|  |
|--|
| DRAWBACK   |
| Pushing the button, the motor pump doesn't start |
| CAUSE  |
| No tension in the current socket                 |
| REMEDY   |
| Check plug, cable, and socket.                   |

|  |
|--|
| DRAWBACK   |
| The motor doesn't start  |
| CAUSE  |
| The pump is jammed.  |
| REMEDY   |
| Disconnect the plug from the socket and with a screwdriver, turn on the motor fan. It doesn't turn to verify the pump. |

|   |
|---|
| DRAWBACK  |
| The motor suddenly stops.                                     |
| CAUSE   |
| The thermal protection has intervened to prevent overheating. |
| REMEDY  |
| Check if the tension is correct.                              |

|   |
|---|
| DRAWBACK  |
| The high-pressure cleaner is noisy.                                 |
| CAUSE   |
| Air suction, dirty valves, excessive temperature.                   |
| REMEDY  |
| Check the air duct, clean or replace valves, reduce the temperature |

|  |
|--|
| DRAWBACK   |
| No water exits.  |
| CAUSE  |
| Dirty water filter, pump valves jammed, lance nozzle closed. |
| REMEDY   |
| Clean filter, check valves, and clean nozzle.                |

|  |
|--|
| DRAWBACK   |
| Pressure inconsistent and inadequate.  |
| CAUSE  |
| Dirty water filter, gasket worn-out, inadequate water, pump sucking air. Pressure valve worn-out, nozzle worn-out, dirty coil. |
| REMEDY   |
| Clean filter, replace gaskets, check the water flow, check the pump, replace the valve, replace the nozzle, clean coil.        |

|   |
|---|
| DRAWBACK  |
| The burner doesn't start.   |
| CAUSE   |
| Fuel filter dirty, fuel pump filter dirty, burner nozzle dirty, an insufficient spark to the electrodes, motor pump joint worn-out, and insufficient voltage. |
| REMEDY  |
| Clean pump and fuel filter, replace the nozzle worn-out, change electrodes and motor joint and check the tension.   |

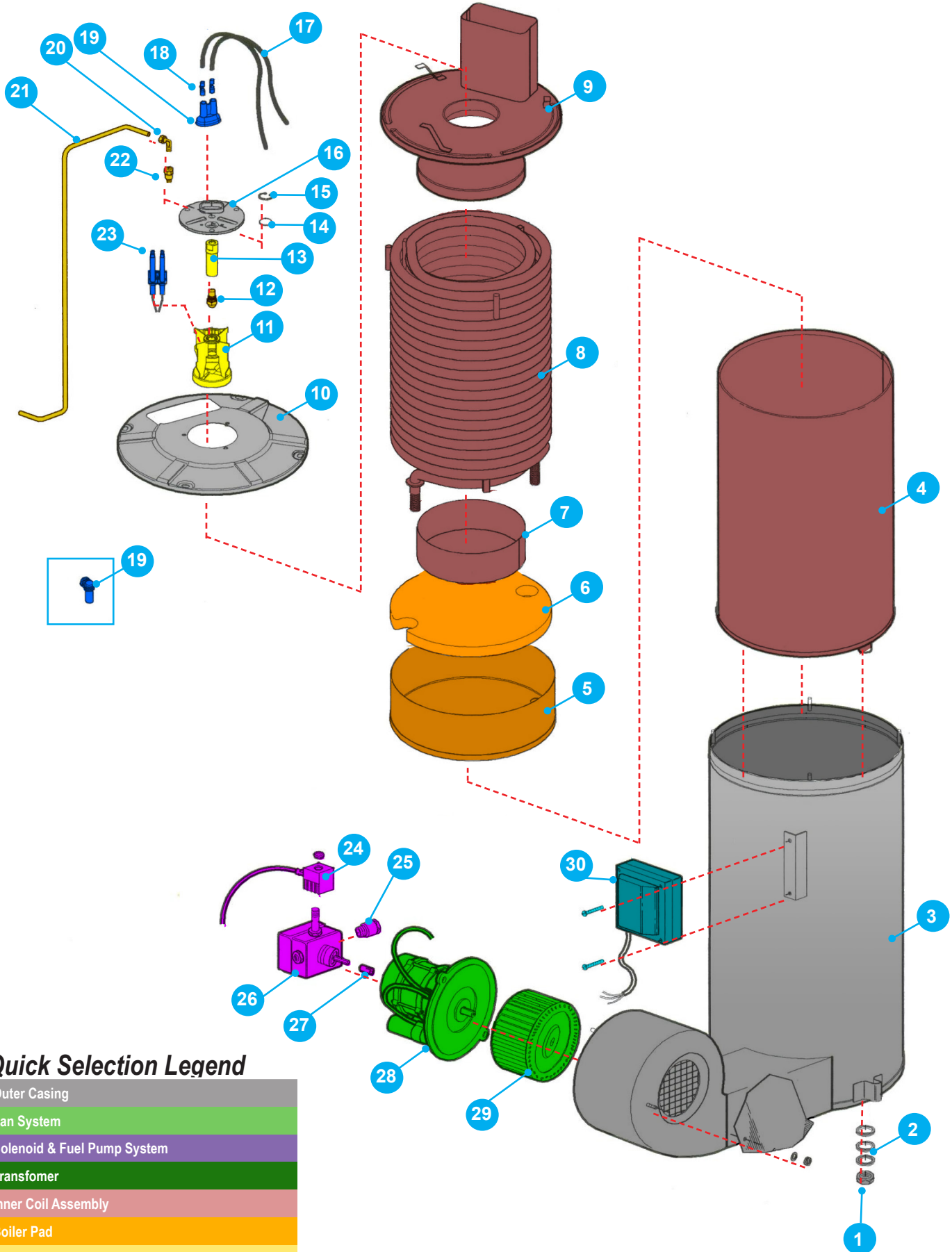
|   |
|---|
| DRAWBACK  |
| With the lance opened, the pressure goes up and down.   |
| CAUSE   |
| Warped or obstructed nozzle, obstructed lance, or coil. |
| REMEDY  |
| Clean or replace the nozzle, scale the coil, and lance. |



# PUMPS AUSTRALIA<sup>PTY LTD</sup>

## COMPACT 10/120 USER MANUAL

| Pos | Qty | Description   |
|-----|-----|---|
| 1   | 3   | HEXAGONAL NUT M16                                     |
| 2   | 3   | MEDIUM FLAT WASHER M16 ISO 7089                       |
| 3   | 1   | EXTERNAL BOILER COIL (STAINLESS STEEL OR BLACK STEEL) |
| 4   | 1   | INTERNAL BOILER COIL                                  |
| 5   | 1   | COIL COVER  |
| 6   | 1   | INSULATING DISK                                       |
| 7   | 1   | FLAME CONTAINMENT RING                                |
| 8   | 1   | WATER BOILER COIL (10 TO 23 LITRES)                   |
| 9   | 1   | INTERNAL BOILER FLUTE                                 |
| 10  | 1   | EXTERNAL BOILER COVER                                 |
| 11  | 1   | FUEL SUPPORTING NOZZLE                                |
| 12  | 1   | ATOMISATION FUEL NOZZLE WITH FILTER                   |
| 13  | 1   | NOZZLE HOLDER   |
| 14  | 1   | INSPECTION BOILER GLASS                               |
| 15  | 1   | CIRCLIP RING  |
| 16  | 1   | BOILER MOUNTING PLATE                                 |
| 17  | 1   | ELECTRODES CABLES 11,000 VOLTS (240VAC SYSTEM)        |
| 17A | 1   | ELECTRODES CABLES 22,000 VOLTS (12VDC SYSTEM)         |
| 19  | 1   | DOUBLE ELECTRODE COVER                                |
| 20  | 1   | COPPER FUEL LINE ELBOW                                |
| 21  | 1   | COPPER FUEL SUPPLY LINE                               |
| 22  | 1   | COPPER FUEL LINE CONNECTOR                            |
| 23  | 1   | DUAL ELECTRODES                                       |
| 24  | 1   | 240VAC / 24VAC FUEL SOLENOID                          |
| 24A | 1   | 12VDC FUEL SOLENOID                                   |
| 25  | 1   | FUEL SUPPLY LINE FITTING                              |
| 26  | 1   | DIESEL FUEL PUMP                                      |
| 27  | 1   | FUEL PUMP ADAPTOR                                     |
| 28  | 1   | 240VAC BURNER MOTOR                                   |
| 28A | 1   | 12VDC BURNER MOTOR                                    |
| 29  | 1   | FAN BLADE (LEFT ROTATION)                             |
| 29A | 1   | FAN BLADE (RIGHT ROTATION)                            |
| 30  | 1   | 240VAC IGNITION TRASFORMER                            |
| 30A | 1   | 12VDC IGNITION TRANSFORMER                            |



### Quick Selection Legend

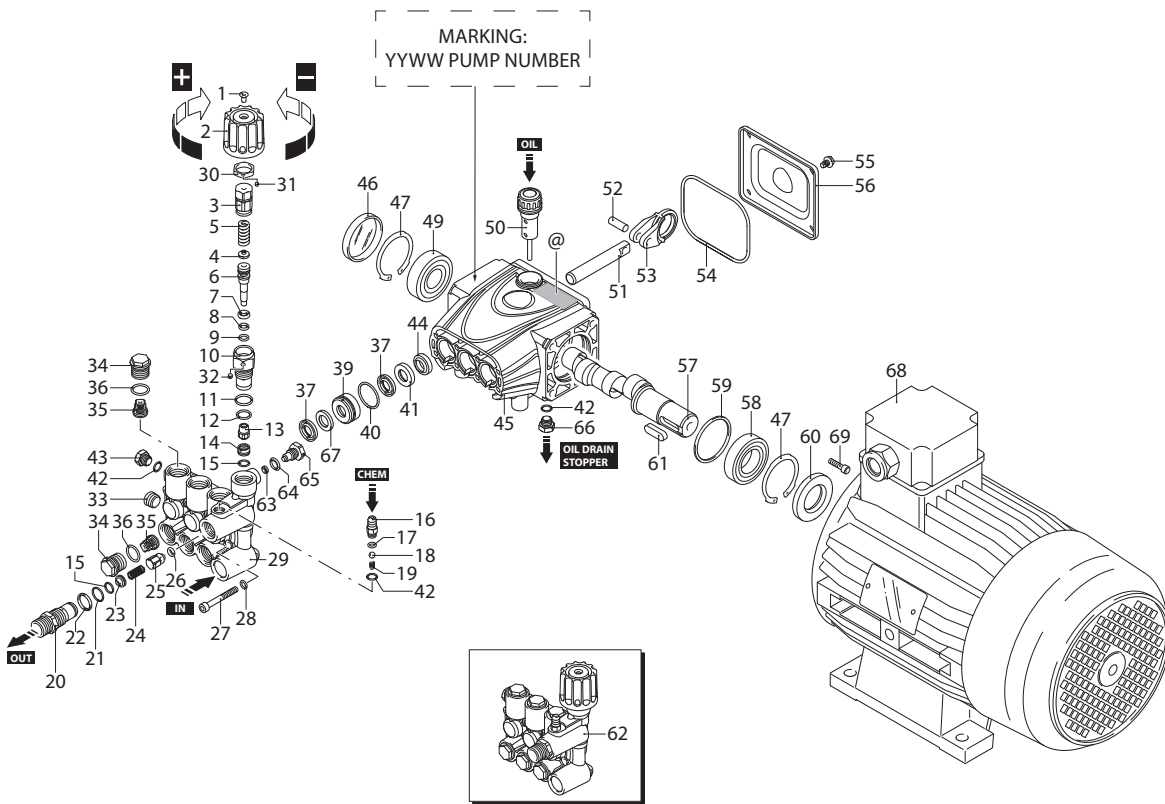
|                             |
|-----------------------------|
| Outer Casing                |
| Fan System                  |
| Solenoid & Fuel Pump System |
| Transformer                 |
| Inner Coil Assembly         |
| Boiler Pad                  |
| Fuel System                 |
| Electrical System           |

Please Note: 240VAC Option Shown, 12VDC will vary.



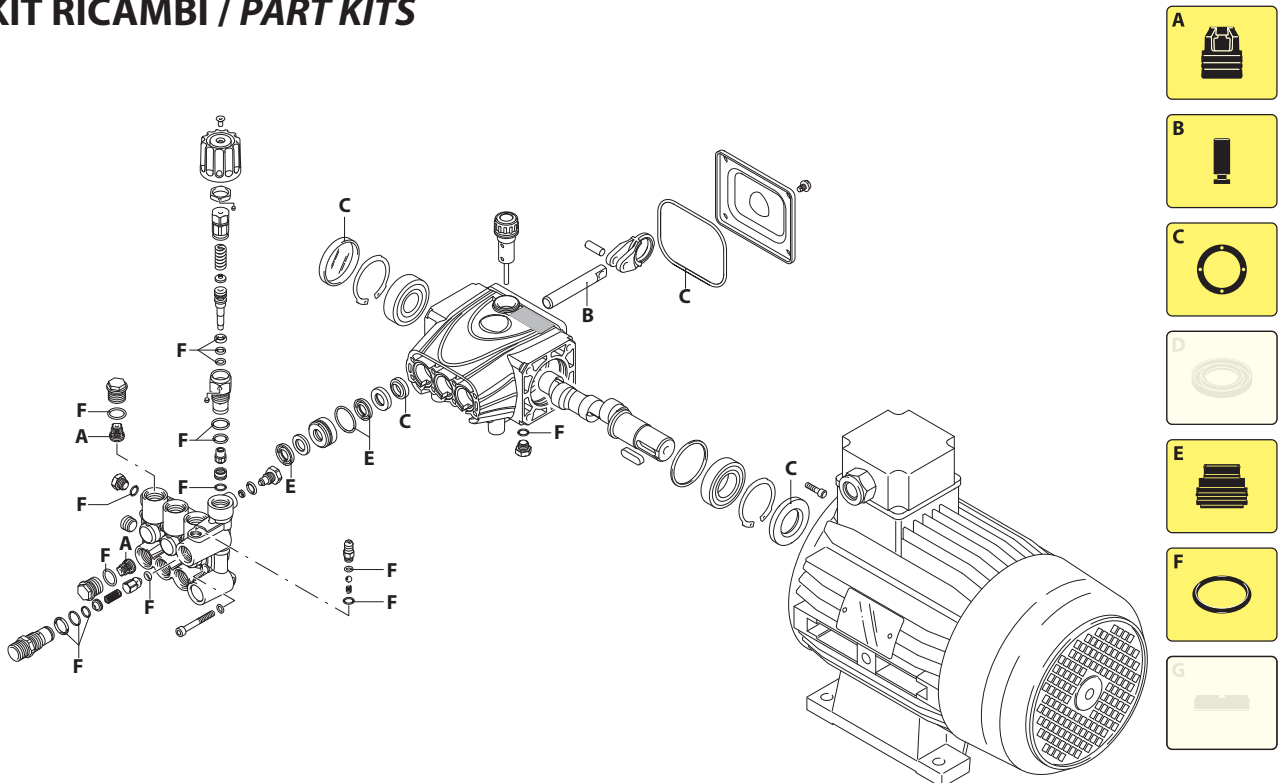
# HJR

# 1450rpm



UN004349-LM

## KIT RICAMBI / PART KITS



UN004350-LM





## 414 Series

HJR 1450 rpm

8.15 EM (26890)  
8.15 ET (26891)



| Pos. | Cod.    | Denominazione               | Description    | Qt. | Note     | Pos. | Cod.    | Denominazione              | Description    | Qt. | Note      |
|------|---------|-----------------------------|----------------|-----|----------|------|---------|----------------------------|----------------|-----|-----------|
| 1    | 3800250 | Vite TSEI M4x8              | Screw          | 1   | ☐ C=3Nm  | 44   | 3800111 | Anello                     | Ring           | 3   |           |
| 2    | 3800180 | Manopola                    | Knob           | 1   |          | 45   | 4140520 | Corpo pompa                | Pump body      | 1   |           |
| 3    | 3800190 | Vite                        | Screw          | 1   |          | 46   | 4140150 | Coperchio                  | Cover          | 1   |           |
| 4    | 1980220 | Piastra                     | Plate          | 1   |          | 47   | 4140360 | Anello seeger Øi 47        | Ring           | 2   |           |
| 5    | 2760410 | Molla                       | Spring         | 1   | (c)      | 49   | 4140110 | Cuscinetto                 | Bearing        | 1   |           |
| 6    | 4140170 | Pistone                     | Piston         | 1   | (b)      | 50   | 4140210 | Tappo                      | Plug           | 1   |           |
| 7    | 2260100 | Guarnizione OR Ø 6,02x2,62  | O-ring         | 1   |          | 51   | 4140430 | Pistone Ø 14               | Piston         | 3   | ☒         |
| 8    | 660190  | Guarnizione OR Ø 6,07x1,78  | O-ring         | 1   |          | 52   | 4140070 | Spina                      | Pin            | 3   |           |
| 9    | 2760210 | Anello antiestrusione       | Ring           | 1   |          | 53   | 4140080 | Biella alluminio           | Connecting-rod | 3   | ⊙         |
| 10   | 3800210 | Guida pistone               | Piston guide   | 1   | ☉ C=15Nm | 54   | 4140090 | Guarnizione OR             | O-ring         | 1   |           |
| 11   | 740290  | Guarnizione OR Ø 14x1,78    | O-ring         | 1   |          | 55   | 4140270 | Vite TE 5x8                | Screw          | 4   |           |
| 12   | 820510  | Guarnizione OR Ø 10,82x1,78 | O-ring         | 1   |          | 56   | 4140030 | Coperchio                  | Cover          | 1   |           |
| 13   | 3800230 | Pistone inferiore           | Piston         | 1   | ☉ C=3Nm  | 57   | 4140050 | Albero marcato 1           | Shaft          | 1   |           |
| 14   | 2841080 | Sede                        | Seat           | 1   |          | 58   | 4140100 | Cuscinetto                 | Bearing        | 1   |           |
| 15   | 1470210 | Guarnizione OR Ø 9x1        | O-ring         | 2   |          | 59   | 4140190 | Anello                     | Ring           | 1   |           |
| 16   | 3700240 | Portagomma Ø 8              | Hose tail      | 1   | C=4Nm    | 60   | 4140200 | Tenuta olio                | Oil seal       | 1   | (a)       |
| 17   | 480480  | Guarnizione OR Ø 4,48x1,78  | O-ring         | 1   |          | 61   | 1380520 | Linguetta                  | Key            | 1   |           |
| 18   | 1250280 | Sfera                       | Ball           | 1   |          | 62   | 4149207 | Prem. testa                | Head assembly  | 1   |           |
| 19   | 1560520 | Molla                       | Spring         | 1   |          | 63   | 1120681 | Guarnizione OR Ø 3,39x1,78 | O-ring         | 1   | ☐         |
| 20   | 2760230 | Raccordo 3/8" G M           | Fitting        | 1   | ☉ C=40Nm | 64   | 600180  | Guarnizione OR Ø 7,66x1,78 | O-ring         | 1   |           |
| 21   | 2760270 | Guarnizione OR Ø 12x1       | O-ring         | 1   |          | 65   | 1344950 | Tappo                      | Plug           | 1   | C=8Nm     |
| 22   | 394280  | Guarnizione OR Ø 12,42x1,78 | O-ring         | 1   |          | 66   | 2841800 | Tappo                      | Plug           | 1   | C=8Nm     |
| 23   | 2760120 | Iniettore Ø 2,0             | Injector       | 1   |          | 67   | 3800890 | Anello antiestrusione      | Ring           | 3   |           |
| 24   | 2760200 | Molla                       | Spring         | 1   |          | 68   | 44372   | Motore Gr.90L              | Motor          | 1   | ○ 3 HP EM |
| 25   | 2761511 | Otturatore                  | Shutter        | 1   |          | 69   | 45061   | Motore Gr.90L              | Motor          | 1   | ● 3 HP ET |
| 26   | 2101770 | Guarnizione OR Ø 4x2,5      | O-ring         | 1   | 90 Sh    |      | 880280  | Vite TCEI M6x18            | Screw          | 4   | C=10,4Nm  |
| 27   | 1345180 | Vite TCEI M5x40             | Screw          | 8   | C=6,2Nm  |      |         |                            |                |     |           |
| 28   | 4140140 | Rondella                    | Washer         | 8   |          |      |         |                            |                |     |           |
| 29   | 4140530 | Testa ottone                | Head           | 1   |          |      |         |                            |                |     |           |
| 30   | 3800200 | Dado M16x1                  | Nut            | 1   |          |      |         |                            |                |     |           |
| 31   | 3800240 | Vite STEI M3x4              | Screw          | 1   | (e)      |      |         |                            |                |     |           |
| 32   | 3800310 | Vite STEI M4x4              | Screw          | 1   | ☉ (d)    |      |         |                            |                |     |           |
| 33   | 2760260 | Tappo 1/4" G                | Plug           | 1   | ☐ C=16Nm |      |         |                            |                |     |           |
| 34   | 2840130 | Tappo                       | Plug           | 6   | ☉ C=25Nm |      |         |                            |                |     |           |
| 35   | 2849051 | Valvola completa plastica   | Complete valve | 6   |          |      |         |                            |                |     |           |
| 36   | 2841520 | Guarnizione OR Ø 13,5x1,8   | O-ring         | 6   |          |      |         |                            |                |     |           |
| 37   | 3800140 | Guarnizione                 | Gasket         | 6   | ☒        |      |         |                            |                |     |           |
| 39   | 4140490 | Boccola Ø 14                | Bushing        | 3   |          |      |         |                            |                |     |           |
| 40   | 4140510 | Guarnizione OR Ø 22,5x1     | O-ring         | 3   | ☒        |      |         |                            |                |     |           |
| 41   | 3800170 | Boccola                     | Bushing        | 3   |          |      |         |                            |                |     |           |
| 42   | 3700250 | Guarnizione OR Ø 8x1,1      | O-ring         | 3   | ☒ 80ShA  |      |         |                            |                |     |           |
| 43   | 2841800 | Tappo                       | Plug           | 1   | ☉ C=8Nm  |      |         |                            |                |     |           |

### KIT RICAMBI - PART KITS

| A=KIT 43478<br>valvole<br>valves |      | B=KIT 43894 Ø14<br>pistoni<br>pistons |      | C=KIT 43895 Ø14<br>tenute olio<br>oil seals |      | E=KIT 43896 Ø14<br>tenute acqua<br>water seals |      |
|----------------------------------|------|---------------------------------------|------|---|------|--|------|
| Pos.                             | Q.ty | Pos.                                  | Q.ty | Pos.  | Q.ty | Pos.   | Q.ty |
| 35                               | 6    | 51                                    | 3    | 44  | 3    | 37   | 6    |
|                                  |      |                                       |      | 46  | 1    | 40   | 3    |
|                                  |      |                                       |      | 54  | 1    |  |      |
|                                  |      |                                       |      | 60  | 1    |  |      |

| F=KIT 43482<br>OR<br>O-Rings |      |      |      |      |      |      |      |
|------------------------------|------|------|------|------|------|------|------|
| Pos.                         | Q.ty | Pos. | Q.ty | Pos. | Q.ty | Pos. | Q.ty |
| 7                            | 1    | 21   | 1    |      |      |      |      |
| 8                            | 1    | 22   | 1    |      |      |      |      |
| 9                            | 1    | 26   | 1    |      |      |      |      |
| 11                           | 1    | 36   | 6    |      |      |      |      |
| 12                           | 1    | 42   | 3    |      |      |      |      |
| 15                           | 2    |      |      |      |      |      |      |
| 17                           | 1    |      |      |      |      |      |      |

### SIMBOLOGIA - SYMBOLS

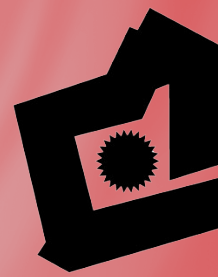
○ Per / For  
HJR 8.15 EM  
cod. 26890

● Per / For  
HJR 8.15 ET  
cod. 26891

- C Tolleranza coppia di serraggio +0÷-10% / Tightening torque tolerance +0÷-10%
- ☐ Avvitare con Loxeal 55-14 / Screw with Loxeal 55-14
- ☒ Lubrificare con grasso Molykote PG54 / Lubricate with grease Molykote PG54
- ☉ Lubrificare con grasso Molykote G807 / Lubricate with grease Molykote G807
- ☐ Avvitare con Loctite 243 / Screw with Loctite 243
- ⊙ Lubrificare con grasso Molykote BR2 Plus / Lubricate with grease Molykote BR2 Plus
- (a) Montare anello tenuta con attrezzo cod. 1941990 / Fit the seal with tool code nr. 1941990
- (b) Riempire le scanalature con grasso Molykote PG54 / Fill the groove with grease Molykote PG54
- (c) Nel lato superiore lubrificare con grasso Molykote BR2 PLUS / In the upper side, lubricate with grease Molykote BR2 PLUS
- (d) Non bloccare contro cod. 3800190 / Do not block against code nr.3800190
- (e) Non mettere collanti / Don't put the glue
- @ Posizionamento targa di identificazione / Identification plate positioning
- β Codice premontaggio / Code number

#### Olio - Oil

| Tipo / Type | Quantità / Quantity |
|-------------|---------------------|
| SAE 15W40   | 0,154Kg             |



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Clinton Farmer; **Kutkabubba Aboriginal Corp.**



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