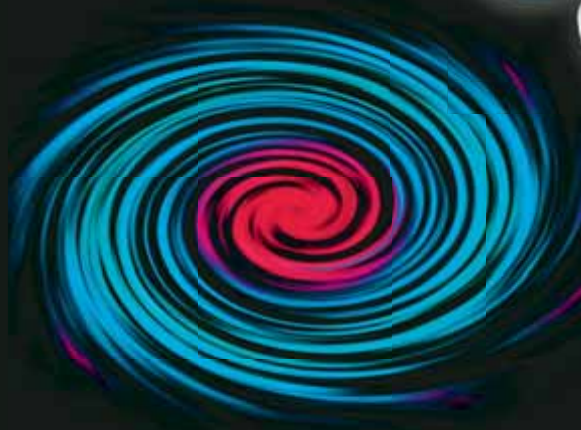


POWER WASH

IDROPULTRICI PROFESSIONALI

*PROFESSIONAL PRESSURE WASHERS
NETTOYEURS PROFESSIONNEL
HIDROLAVADORA PROFESIONALES
HIDROLIMPADORA PROFESIONALES*



gold
gold PLUS

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Specifications and contents are subject to change without notice for purposes of improvement.

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HOW TO USE AND RETAIN THE HANDBOOK

This instruction handbook will enable you to obtain the best results from your new machine.

The handbook gives instructions for moving, use, maintenance and operators training. It makes spare parts easier to order and gives information on the safe of the equipment.

The machine is designed for industrial use.

This handbook is part of the machine and must be retained for future reference.

The manufacturer reserves the right to update the machines and the handbook without updating previous production and handbooks.

Manufacturer has non responsibility in case of:

- a) Wrong use of machine;*
- b) Use contrary to specific national regularions;*
- c) Wrong installation;*
- d) Lack of scheduled maintenance;*
- e) Unauthorised modifications;*
- f) Use of non original spare parts (complete or partial);*
- g) Failure comply with recommended instructions;*
- h) Exceptional events.*

INTRODUCTION

Congratulations!

Thank you for buying a **GOLD** You have chosen the best!
This is reliable, safe, durable machines versatile in all its applications which will give unlimited use if used correctly. To use this machine properly you must follow the instructions in this handbook.

IMPORTANT: do not forget to fill in and return the guarantee registration card within 10 days from the date of purchase.



MODEL
MACH. N°
PROD. DATE
PRESS. BAR
VOLTAGE
KW
HZ

<i>GOLD</i>
<i>bar</i>

PRECAUTIONS

To avoid damage to the water pump always ensure inlet water is filtered before the pump. Always supply clean water only. Contaminated water will cause damage to pump seals and valves. Always use water inlet hose of sufficient diameter to avoid water starvation in pump.

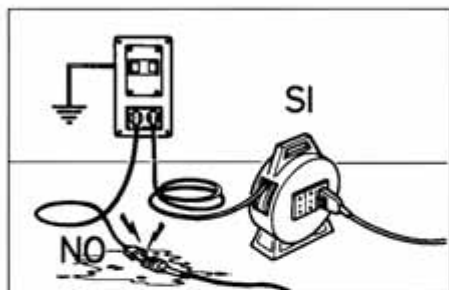
Do not allow the pump to run dry.

Avoid the machine recirculating for long periods (on by-pass models).

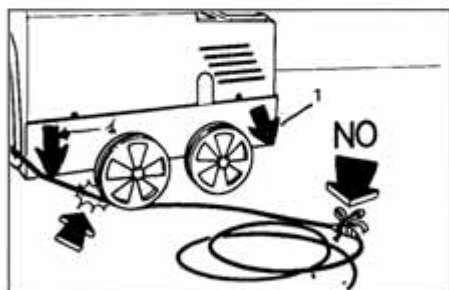
Max. pump inlet water temperature 60°C

Max. water inlet pressure 8 bar.

PROTECT MACHINE FROM FROST



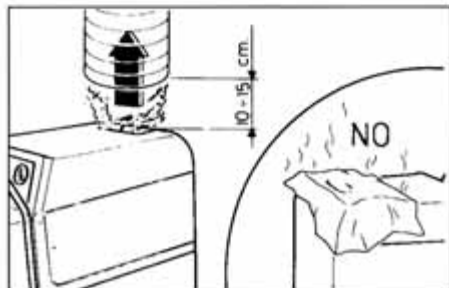
Be sure your electric plug complies with the safety rules in force. The plug must be properly and securely connected with an approved **earth terminal** not lower than 16 ampere avoid using extension cables. If they are necessary always use a cable reel with proper section cable.



Do not use the machine near inflammable materials and **observe relevant fire prevention regulations.**

It is better to have an extinguisher near the machine.

Lifting point (1) care must be taken when lifting the machine.



Do not use the burner in buildings or confined spaces without adequate ventilation. Do not touch or cover the exhaust.

If connected to a chimney ensure adequate draught is available. If necessary install a fan in the system.

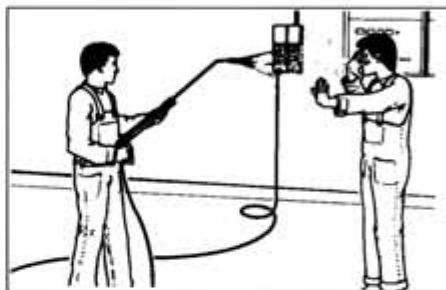
PRECAUTIONS

ATTENTION:

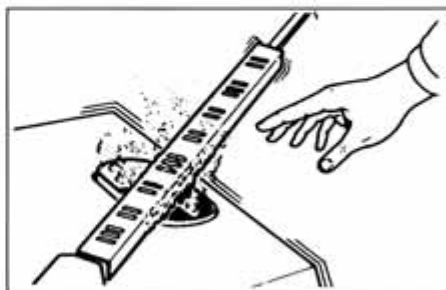
Do not allow children or untrained personnel to operate the machine.



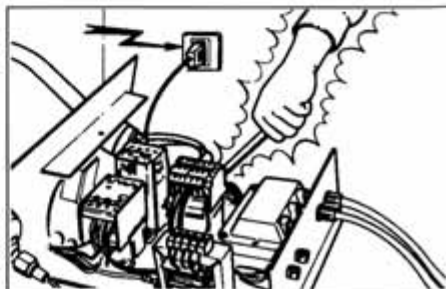
High pressure water jets can be dangerous. Do not direct the water at any person, animals or electrical equipment or towards the machine.



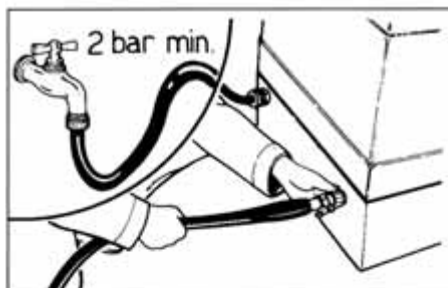
Do not place any objects over exhaust



Always **disconnect** the plug before commencing any servicing work on the machine (do the same during installation).



INSTALLATION AND USE

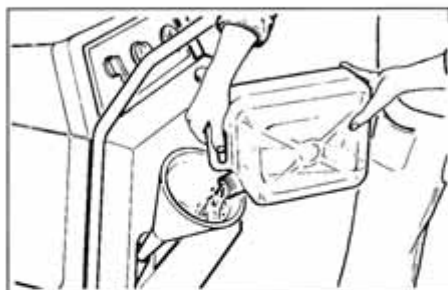


CONNECTING TO WATER AND ELECTRIC SUPPLIES.

Connect the cleaner to the water mains, using a water hose that resists up to 10 ATM with connection ($\varnothing 3/4"$).

- Check water supply is sufficient: Water pressure must be minimum 2 ATM. Otherwise the pump will draw air which will cause cavitation this could damage the machine.

- Connect the rubber hose between the machine and the lance.

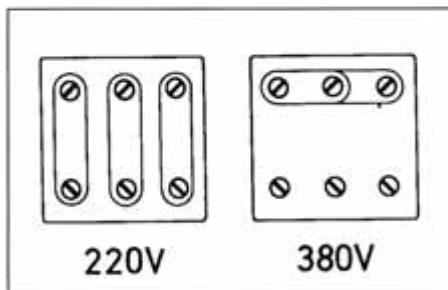


CONTROL OF THE LEVELS:

- Check the level of the fuel and fill with clean diesel

- Check the level of detergent, do not open the valve if the container is empty.

- Check oil level in the pump. Top up to correct level if required using recommended oils only (see page 7).



CONNECTING TO ELECTRIC SUPPLY

- Check that the electric supply is suitable for the machine.

- Our machine can start, different request excepted, at 200V and 380V three phase. They are always linked at 380V 3 PH, but if you want, you can start them at 220V 3 phase.

1) Take off the screws from the cover of the electric clamp of the motor;

2) Move the terminal bands as from drawing on the rating plate close the cover;

3) Regulate the thermal switch (B on electric) at the exact value rating as indicated on the rating plate on the motor (& opposite)

Link to the wire and put in the plug.

- Turn the switch and check that the air comes out of the chimney.

Potenza	Assorbimento Motore	Termica
Hp 4	8 amp	10-11 amp
Hp 5,5	10 amp	12-13 amp
Hp 7,5	12 amp	14-16 amp

INSTALLATION AND USE

STARTING:

- First let the machine run for about two minutes, without H. R hose and lance to remove impurities.

Then connect H. R hose and lance to the relative connections.

COLD WATER: Turn switch (13).

COLD WATER CHEMICAL: Turn switch (13) on and open the chemical regulator (24).

HOT WATER: Turn switch (13) on position vapor and turn the thermostat (14) to required temperature.

HOT WATER AND CHEMICAL: Turn the switch on the position vapor turn the thermostat (14) to required temperature & open chemical regulator.

WORKING: The machine has an automatic gun. To operate squeeze the trigger. Beware of the recoil caused by the exit of the water jet. The gun is fitted with a safety catch. Disconnect before use.

Water volume can be controlled by a valve (17) on the control panel.

STOPPING:

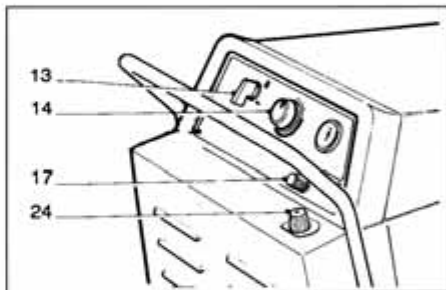
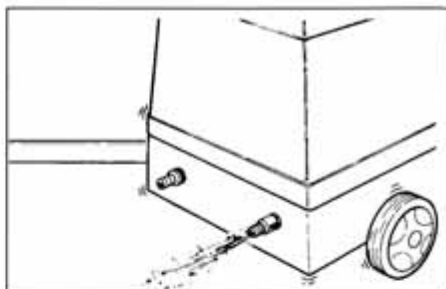
To stop the machine release the trigger of the gun.

If the machine has worked with hot water, turn the thermostat (14) on 0°C and let run with cold water for about 2 minutes to cool the coil. Then turn the switch (13) OFF

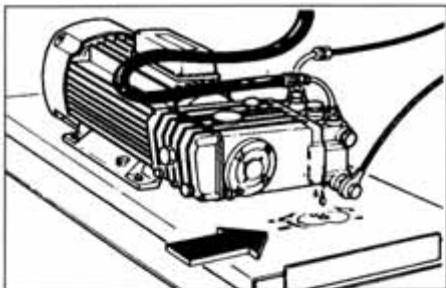
Do not attempt to disconnect the hoses from the machine until the unit has been switched off, the pressure has been relieved and the water in the machine is cold.

DESCALING:

The machine may be fitted with an automatic descaling device, if so, ensure that the container is full using the correct grade of water softener.



MAINTENANCE

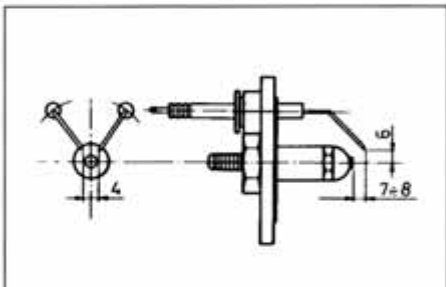


PUMP:

The pump is a three piston plunger pump fitted with ceramic pistons.

Change water seals when continuous leaks are observed underneath the pump casing. Note a slight water leak, during the first few operational hours does not indicate faulty seals, but indicates that these are seating.

If there is oil leaxing between pump mead and casing, you must remove the oil, remove the mead and change the gaskets.

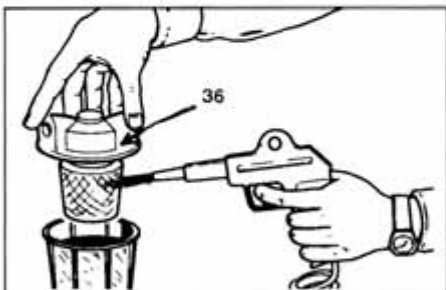


N.B.: Before starting up the pump, check the oil level in the pump: "**ESSO PLUS MOTOR OIL 20W30 or shell OIL X 100 - 20W40**" are to be used.

Change the oil after the first 50 working hours and then after every 200 working 200 working hours.

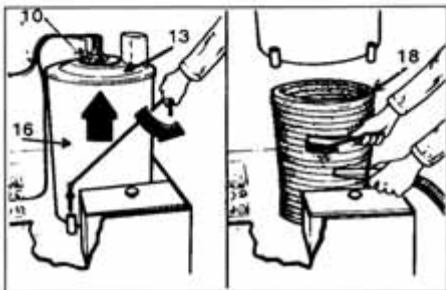
ELECTRODES:

Check the electrodes position periodically to obtain perfect combustion and to avoid soot.



DIESEL FILTER:

To avoid damage to fuel pump due to dirty fuel, there is a filter (36) you must remove and clean it periodically with a jet of air compressed. Put it on again and check the seal gaskets with a jet of compressed air.



BOILER:

To clean the boiler

Dismantle as follows:

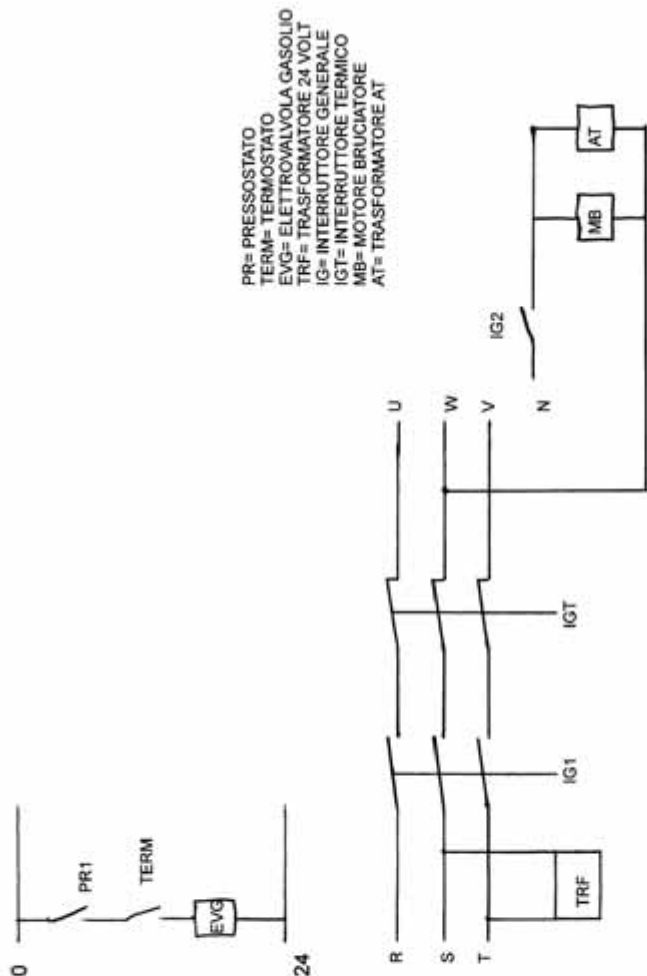
- 1) Take down the combustion group (10).
- 2) Remove the boiler cover (13).
- 3) Remove the screws from the lining of the boiler (16).
- 4) Clean the soot from the coil (18) with a stiff brush and vacuum cleaner.
- 5) Rebuild every thing the operations on the opposite side.

DIAGNOSIS

FAULT	CAUSE	REMEDY
Vibrations at delivery hoses or at the spray	1 - Debris under pump valve 2 - Sucking air on suction side of pump	1 - Remove the valve and clean or replace. 2 - Look for air suction and eliminate it.
Burner does not start	1 - Thermostat not set or disconnected 2 - No diesel in tank 3 - Electrodes dirty 4 - High tension cables of the electrodes faulty or burnt. 5 - Diesel filter dirty. 6 - Electrodes too far a part	1 - Set the thermostat 2 - Fill tank 3 - Clean electrodes 4 - Change high tension cables 5 - Remove and clean the filter 6 - Reposition
Burner makes too much smoke	1 - Air not open enough 2 - Diesel pressure too high 3 - Boiler very Dirty 4 - Burner nozzle unserviceable	1 - Set air by regulation lock 2 - Reduce fuel pump pressure 3 - Clean out boiler 4 - Replace burner nozzle
Pump running but no water to lance	1 - Water starvation 2 - Air in the circuit 3 - Lance nozzle 4 - Debris in valve of the pump 5 - Chemical valve open and chemical container empty 6 - Chemical suction pipe damaged	1 - Check the float and fill the tank 2 - Bleed air 3 - Remove and clean it 4 - Unscrew the valve plug and release the valve clean replace 5 - Close the valve and fill the container 6 - Change suction pipe
Pump pressure high and lance pressure low	1 - Coil blocked 2 - Lance nozzle dirty 3 - Pressure regulation valve dirty 4 - Scale on pressure regulation valve	1 - Clean and descale 2 - Remove nozzle and clean 3 - Remove and clean the valve 4 - Remove and clean
Machine does not start	1 - Fuses blown 2 - Thermal overload cutout disconnected	1 - Replace fuses 2 - Reset

SCHEMI ELETTRICI - Electrical Diagram - Schémas Electriques - Esquemas Aléctricos

GOLD BASE

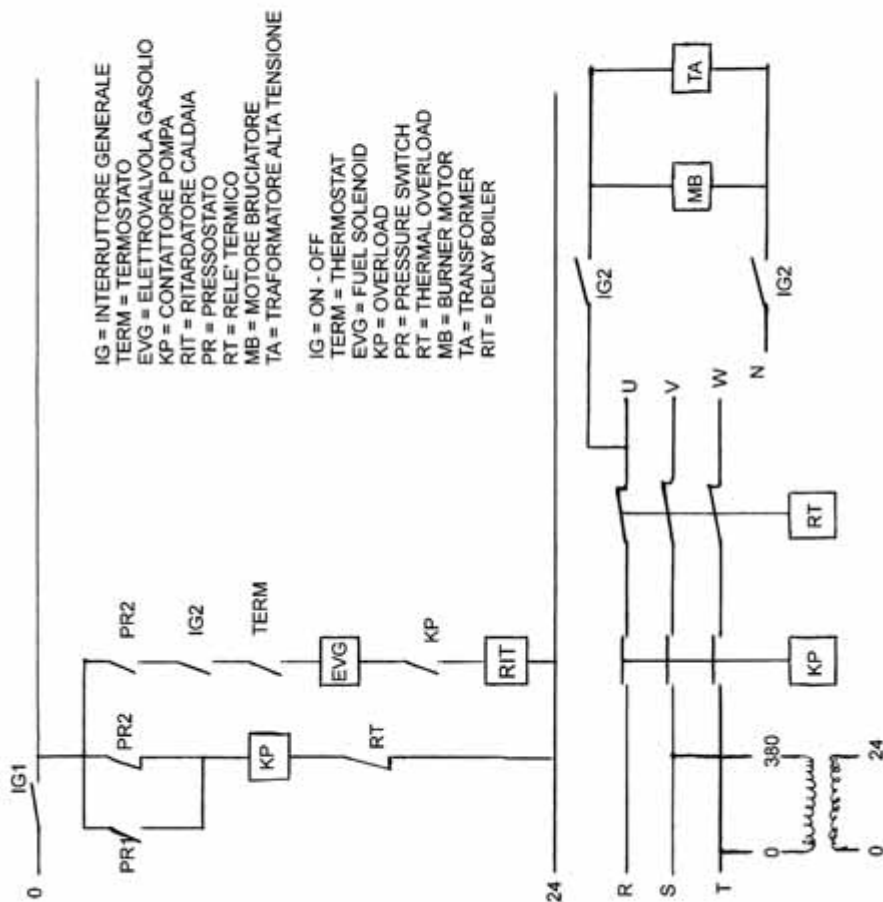


**SCHEMA
 ELETTRICO
 GOLD BASE
 BY PASS**

SCHEMI ELETTRICI - Electrical Diagram - Schémas Electriques - Esquemas Aléctricos

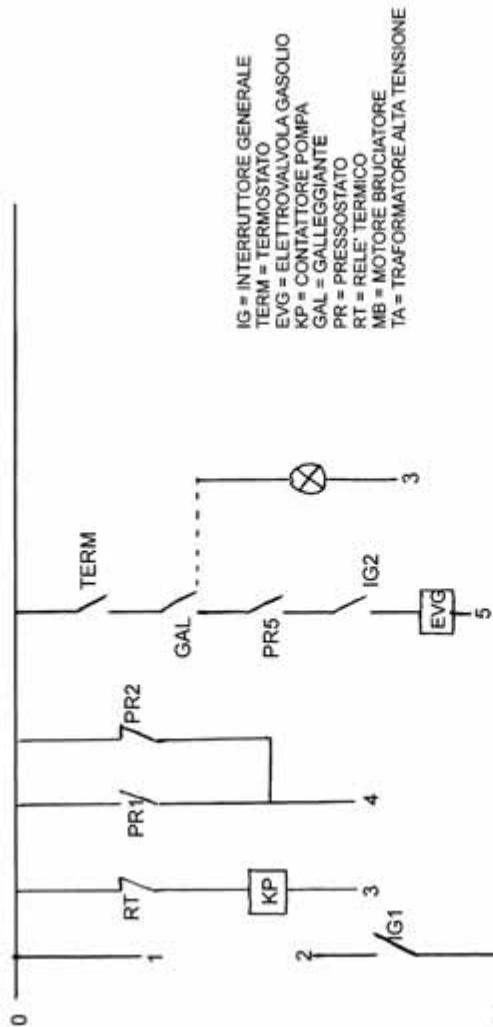
GOLD BASE S.T.

NEW GOLD BASE S.T.

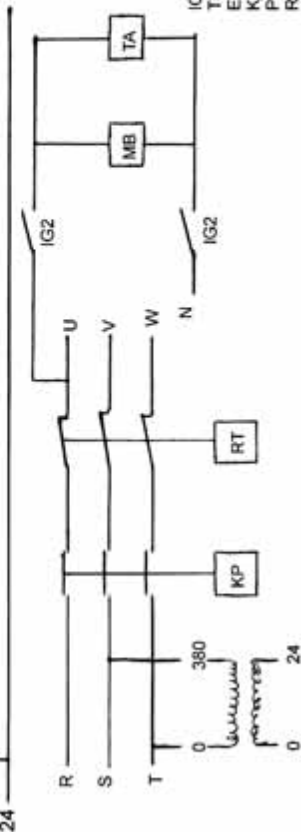


GOLD S.T.R.

QUADRO GOLD S.T.R.

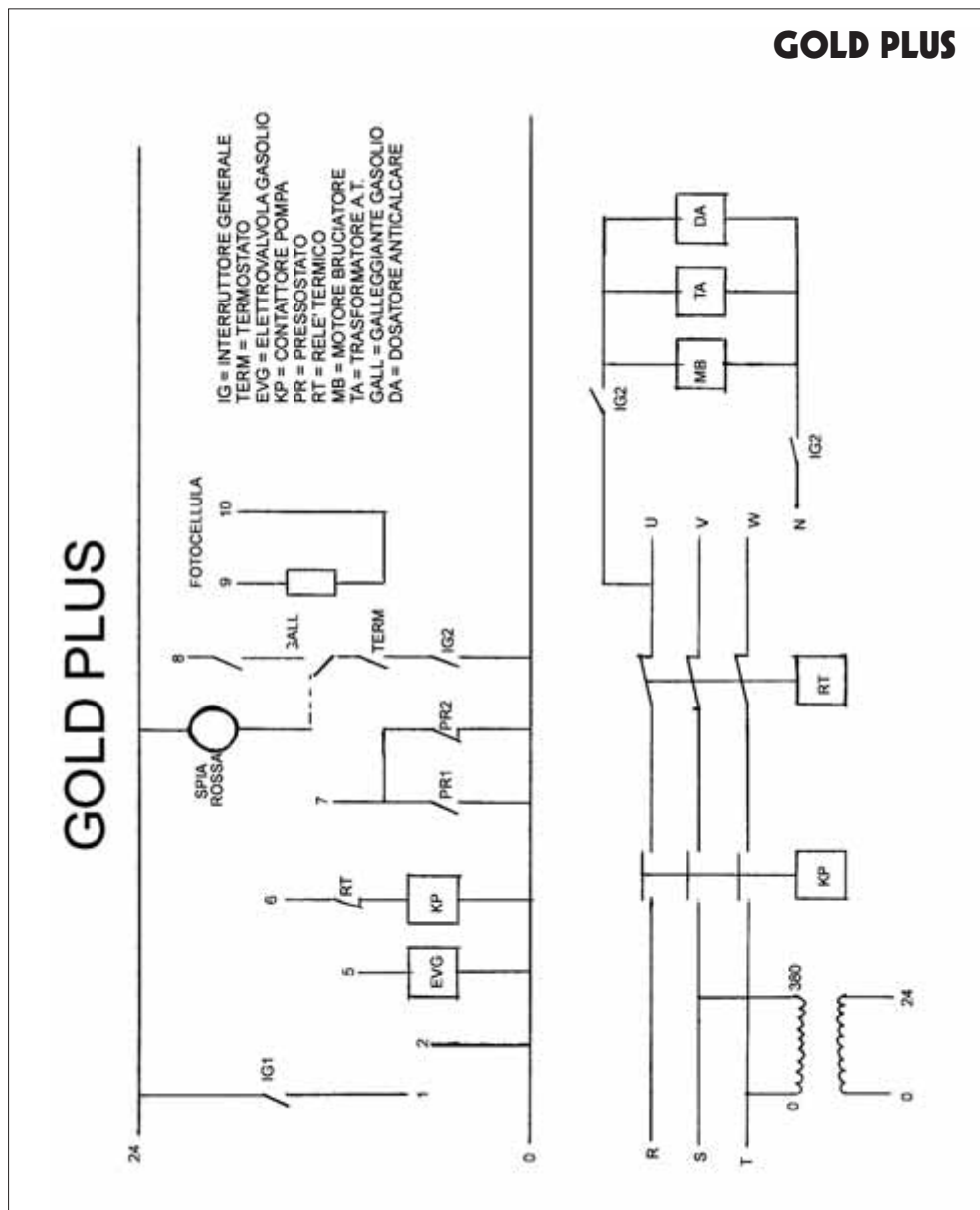


IG = INTERRUTTORE GENERALE
 TERM = TERMOSTATO
 EVG = ELETTROVALVOLA GASOLIO
 KP = CONTATTORE POMPA
 GAL = GALLEGGIANTE
 PR = PRESSOSTATO
 RT = RELE TERMICO
 MB = MOTORE BRUCIATORE
 TA = TRAFORMATORE ALTA TENSIONE



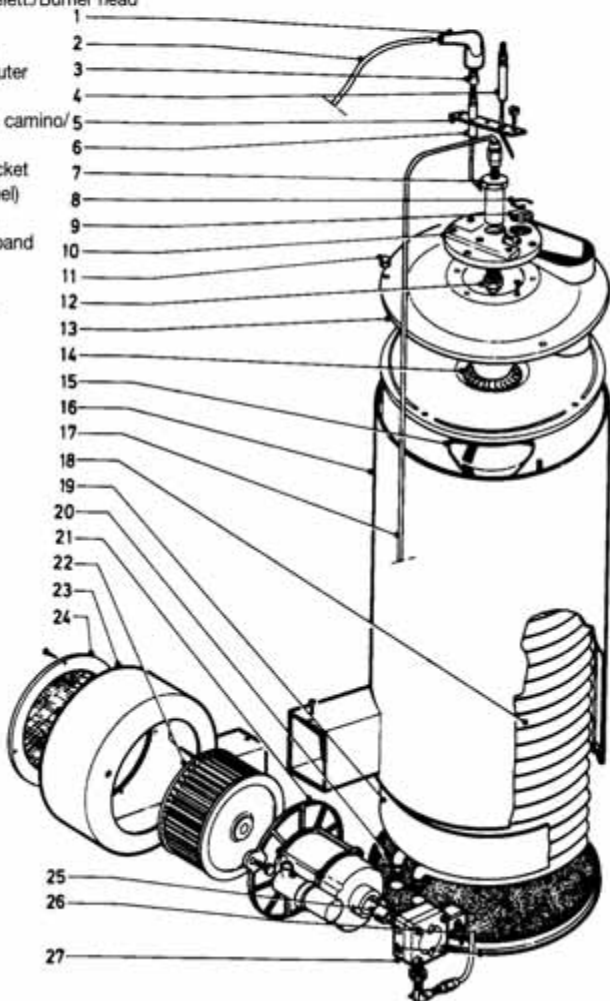
IG = ON - OFF
 TERM = TERMOSTAT
 EVG = FUEL SOLENOID
 KP = OVERLOAD
 PR = PRESSURE SWITCH
 RT = THERMAL OVERLOAD
 MB = BURNER MOTOR
 TA = TRANSFORMER
 GAL = LOW LEVEL FUEL SWITCH

SCHEMI ELETTRICI - Electrical Diagram - Schémas Electriques - Esquemas Aléctricos

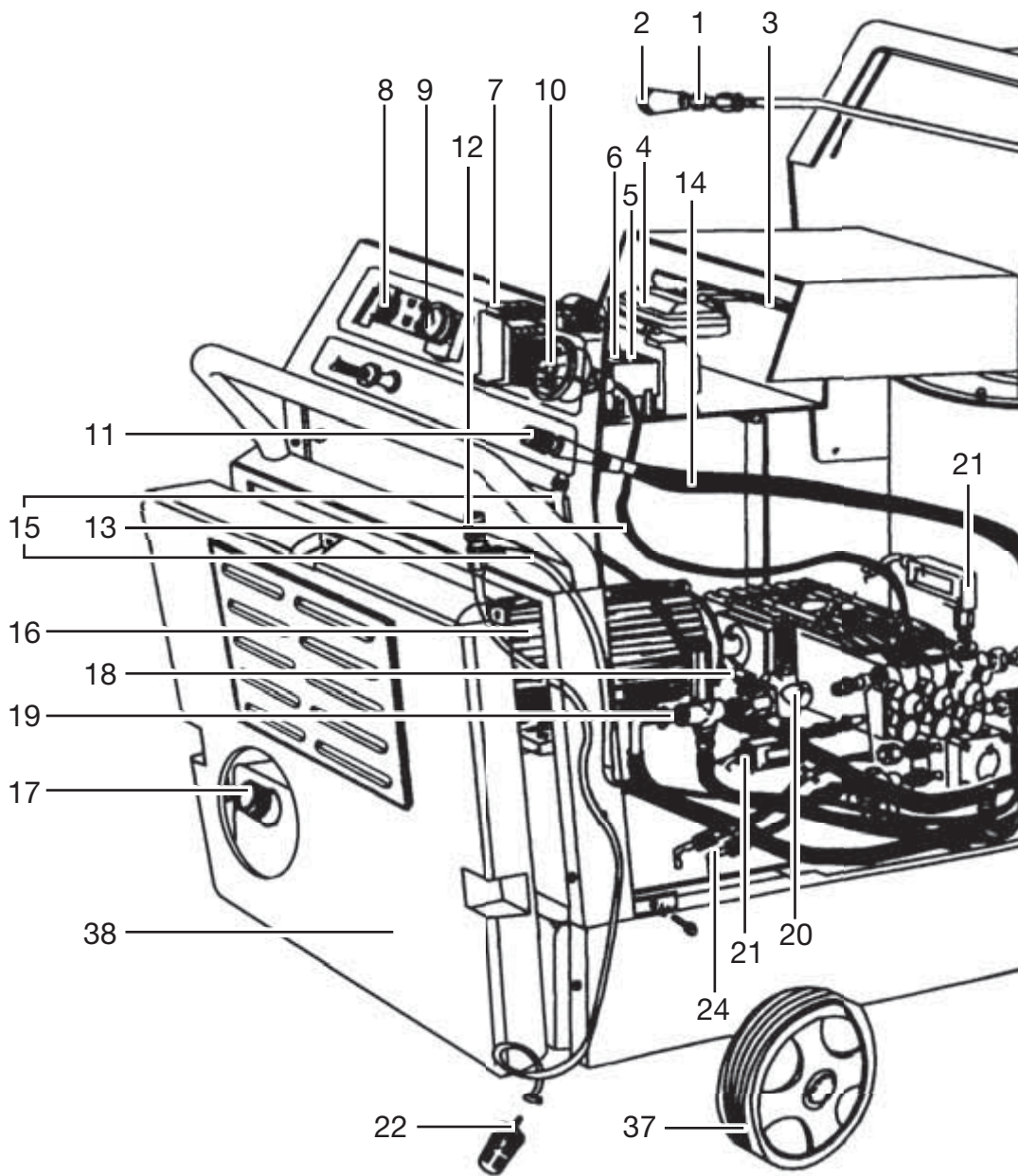


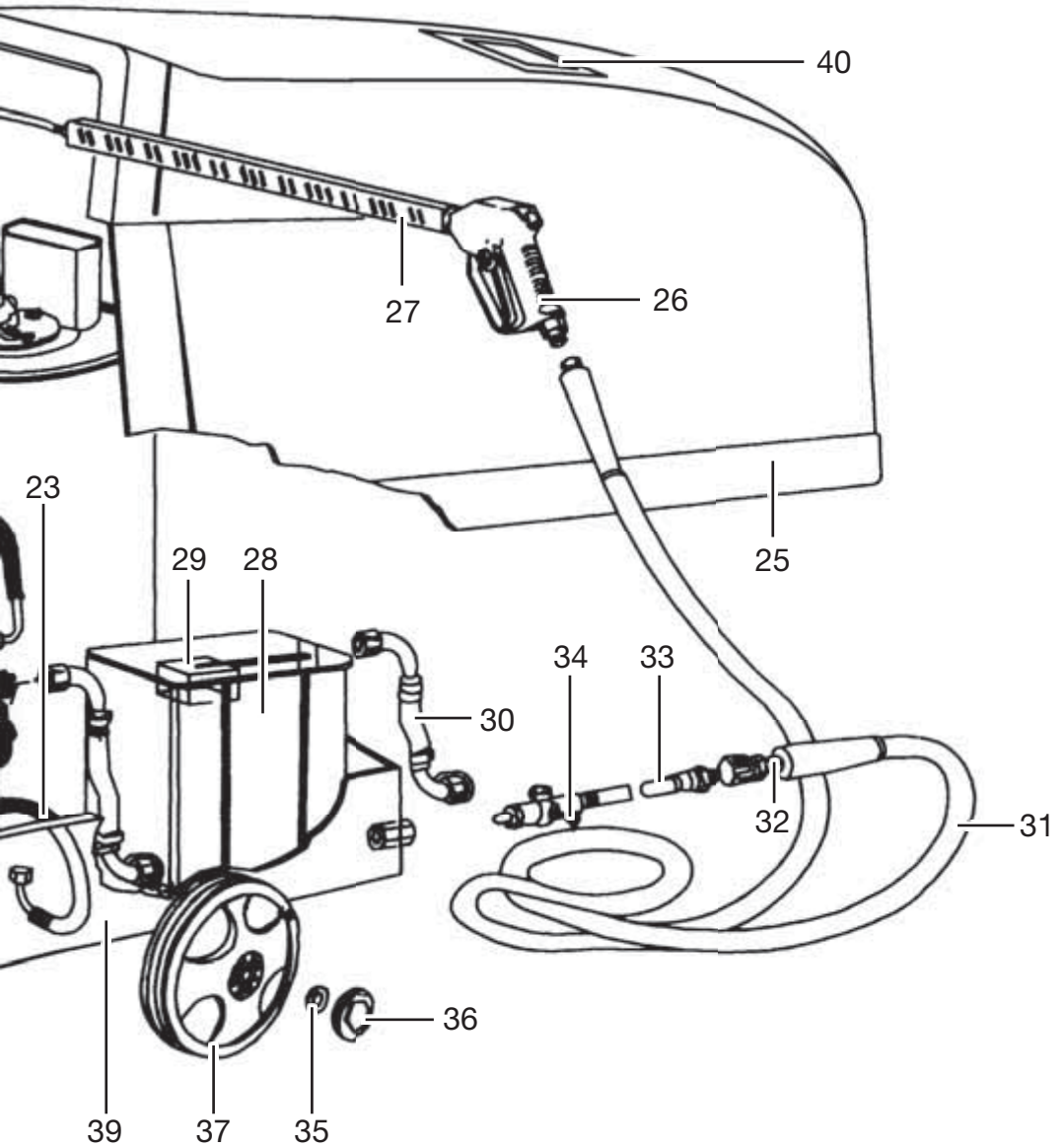
Ricambi caldaia - Boiler parts

1	PW2102	Pipetta plast. comp./Ignitor cap
2	PW8203	Cavo elettrico alta tensione/H.T. elctric cable
3	—	Morsetto bloccag. cavoelen. pipetta
4	PW6001	Elettrodo/Electrode
5	POWPF6	Piattina 70x20x3 bloccag. elett./Retainer 70x20x3 (Electrode)
6	PW6001	Elettrodo/Electrode
7	PW2105	Portaugello/Nozzle holder
8	ZO50117	Seeger/Circlip
9	PW2610	Vetrino spia controllo fiamma/Sight glass
10	PW5007	Fusione all. porta ugello - elett./Burner head
11	—	Dado M6/Nut M6
12	PW23017	Ugello gasolio/Fuel nozzle
13	PW8218	Disco chiusura/Boilertop outer
14	PW9000	Deflettore/Swirl plate
15	PW8202	Camera di espansione con camino/ Boiler top inner
16	PW5008	Fasciame caldaia/Boiler jacket
17	PW1302	Tubo rame/Copper pipe (fuel)
18	PW1903	Serpentina/Coil spral
19	—	Fascia inox/Stainles steel band
20	PW5010	Refrattario (con fondo)/ Boiler bottom complete
21	—	Motore ventola/Fan motor
22	PW2609	Ventola/Fan
23	PW8212	Coclea caldaia verticale/ Fan housing
24	—	Lamella regolazione aria/ Fan guard
25	PW4003	Giunto/Coupling
26	PW6002	Elettrovalvola/Solenoid
27	PW2104	Pompa gasolio/ Diesel pump with solenoid



Mod. GOLD



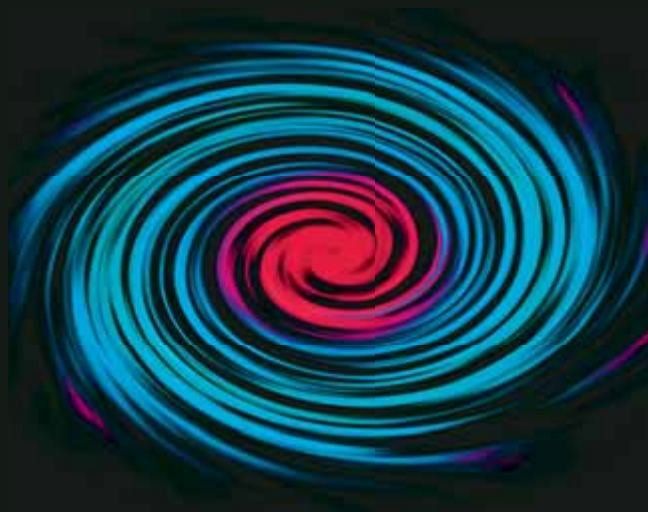


Componenti Mod. GOLD / Components Mod. GOLD

N° posizione	descrizione/description	codice
1	ugello acqua/water nozzle	PW2305
2	paraspruzzi/nozzle cover	40.05.25
3	cavo elettrico A.T. Per bruciatore/high tension cable	PW8203
4	trasformatore bruciatore elettronico/electronic ignition transformer	PW1323
5	contattore hp 3-7,5 /contactor 3-7,5	PW8209
	contattore hp 10/contactor hp 10	PW8210
6	relè termico 11-16A/thermal overload 11-16A	PW1801
	relè termico 14-20A/thermal overload 14-20A	PW1802
7	trasformatore 220-380 24volt/transformer 220-380 24volt	PW1304
8	commutatore 0-1-2/switch 0-1-2	PW8204
9	termostato/thermostat	PW1303
10	manometro assiale 0-315/manometer 0-315	PW1002
11	rubinetto vapore/steam control valve	PW1803
12	rubinetto detergente/detergent control valve	PW1804
13	tubo manometro L-500/gauge pipe L-500	PW1310
14	tubo mandata vapore A.P./hose steam high pressure	CAS-231
15	tubo mandata vapore B.P./hose steam low pressure	CAS-047
16	motore elettrico hp3 monofase 220-50hz/electric motor hp3 mono 220-50hz	PW1005
	motore elettrico hp10 trifase 220/380-50hz/electric motor hp10 triphase 220/380-50hz	PW1006
	motore elettrico hp5,5 trifase 220/380-50hz/electric motor hp5,5 triphase 220/380-50hz	PW1008
	motore elettrico hp7,5 trifase 220/380-50hz/electric motor hp7,5 triphase 220/380-50hz	PW1009
17	serbatoio gasolio/fuel tank	PWSERB
18	pompa alta pressione/high pressure pump	PWG
19	valvola di sicurezza/safety valve	PW2602
20	valvola by pass/by pass valve	PW2605
21	pressostato/pressure switch	PW2109
22	filtro detergente/detergent filter	PW5005
23	tubo mandata R2/high pressure hose 90° 3/8 F – 90° 1/2 F	CAS-206
24	kit tubo gasolio/fuel hose kit	PWKITTG
25	copertura plastica/plastic cover	PW8214
	copertura inox/inox cover	PW2007
26	pistola 200 bar 30 Lt/spray gun 200 bar 30 Lt	PW2103
27	lancia zincata cm120/zinc plated lance cm120	PW3008
28	vaschetta acqua/water tank	PW2608
29	galleggiante acqua ottone/brass float valve	PW4001
30	tubo entrata acqua gold base/inlet water hose gold base	PW2513
	kit tubi entrata acqua gold/kit inlet water hoses	PW2512
	kit tubi entrata acqua gold base c/vaschetta/kit inlet water hoses w/water tank	PW2509
31	tubo alta pressione R2 mt10 5/16 – 3/8MF/high pressure hose R2 mt10 5/16 – 3/8MF	PW1306
	tubo alta pressione R2 mt10 3/8 – 3/8MF/high pressure hose R2 mt10 3/8 – 3/8MF	PW2306
32	innesto rapido diam. 3/8 F/quick coupling diam. 3/8F	PW3001
	innesto rapido diam. 3/8 M/quick coupling diam. 3/8 M	PW3002
33	tubo in ferro diam. 3/8 MM/steel pipe diam. 3/8 MM	PW1525
34	pozzetto porta bulbo/thermostat housing	PW2108
35	boccola bloccaggio ruote/hub cap	PW7104
36	tappo copri mozzo ruota/hub cap plastic cover	PW8217
37	ruota libera diam. 250/wheel diam. 250	PW1806
38	musetto in plastica/plastic front cover	PWMUSETTOFRO
39	telaio/chassy	POWTG
40	rinforzo inox per copertura gold/inox reinforce for gold cover	PW8214R

Components Mod. GOLD / Componentes Mod. GOLD

N° posizione	description/descripción	codice
1	buse de l'eau/boquilla agua	PW2305
2	bavette pare-boue/pararociada	40.05.25
3	cable électrique A.T. Puor bruleur/cable eléctrico A.T. Quemador	PW8203
4	transformateur bruleur A.T./trasformador quemador A.T.	PW1323
5	télérupteur hp 3-7,5/teleruptor hp 3-7,5	PW8209
	télérupteur hp 10/teleruptor hp 10	PW8210
6	relè thermique 11-16A/relé termico 11-16A	PW1801
	relè thermique 14-20A/relé termico 14-20A	PW1802
7	Transformateur 220-380 24volt/trasformador 220/380 24volt	PW1304
8	Commutateur 0-1-2/commutatore 0-1-2	PW8204
9	thermostat/termostato	PW1303
10	manomètre axial 0-315/manómetro axial 0-315	PW1002
11	robinet vapeur/válvula vapor	PW1803
12	robinet détergent/válvula detergente	PW1804
13	tuyau manomètre L-500/tubo manómetro L-500	PW1310
14	tuyau refoulement vapeur H.P./tubo envío vapor A.P.	CAS-231
15	tuyau refoulement vapeur B.P./tubo envío vapor B.P.	CAS-047
16	motor électrique hp3 monophasé 220-50hz/motoreléctrico hp3 monofásico 220-50hz	PW1005
	motor électrique hp10 triphasé 220/380-50hz/motoreléctrico hp10 trifásico 220/380-50hz	PW1006
	motor électrique hp5,5 triphasé 220/380-50hz/motoreléctrico hp5,5 trifásico 220/380-50hz	PW1008
	motor électrique hp7,5 triphasé 220/380-50hz/motoreléctrico hp7,5 trifásico 220/380-50hz	PW1009
17	réservoir gasoil/tanque gasoil	PWSERB
18	pompe haute pression/bomba alta presión	PWG
19	valve de sécurité/válvula de seguridad	PW2602
20	valve by pass/válvula by pass	PW2605
21	manostat/interruptor de presión	PW2109
22	filtre d'aspiration détergent/filtro aspiración detergente	PW5005
23	tuyau refoulement R2/tubo envío R2	CAS-206
24	kit tuyau gasoil/kit tubo gasoil	PW/KITTG
25	capot plastique/cubierta plástico	PW8214
	capot inox/cubierta inox	PW2007
26	Pistolet 200 bar 30 Lt/pistola 200 bar 30 Lt	PW2103
27	lance inox cm120/lancha inox cm120	PW3008
28	réservoir d'eau/tanque de agua	PW2608
29	flottant laiton/flotante latón	PW4001
30	tuyau d'entrée eau gold base/tube entrada agua gold base	PW2513
	kit tubes d'entrée eau gold/kit tubos entrada agua gold	PW2512
	kit tubes d'entrée eau gold base a/réservoir /kit tubos entrada agua gold c/tanque	PW2509
31	tuyau à haute pression R2 mt10 5/16 - 3/8MF/tube alta presión R2 mt 5/16 - 3/8MF	PW1306
	tuyau à haute pression R2 mt10 3/8 - 3/8MF/tube alta presión R2 mt 3/8 - 3/8MF	PW2306
32	cablot rapide diam. 3/8 F/enchufe rápido diám. 3/8 F	PW3001
	cablot rapide diam. 3/8 M/enchufe rápido diám. 3/8 M	PW3002
33	tuyau de fer diam. 3/8 MM/tubo de hierro diám 3/8 MM	PW1525
34	puits porte boule/banera porta bulbo	PW2108
35	clipe blocage roue/clip obstáculo rueda	PW7104
36	couvercle pour le moyeu/tapa cobre chasis	PW8217
37	roue libre diam. 250/rueda libre diám. 250	PW1806
38	couverture avant en plastique/tapa frontal de plástico	PWMUSETTOFRO
39	cadre/chasis	POWTG
40	renfort inox pour la couverture gold/refuerzo inox para la cobertura	PW8214R



IDROPULTRICI PROFESSIONALI

e-mail: info@powerwash.it • www.powerwash.it

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Sede Operativa e Amministrativa: Via Henry Dunant, 45 - 46040 GUIDIZZOLO (MN)

Tel. 0376 818719 - Fax 0376 848455