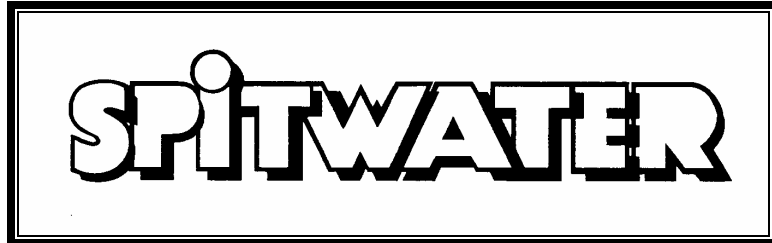


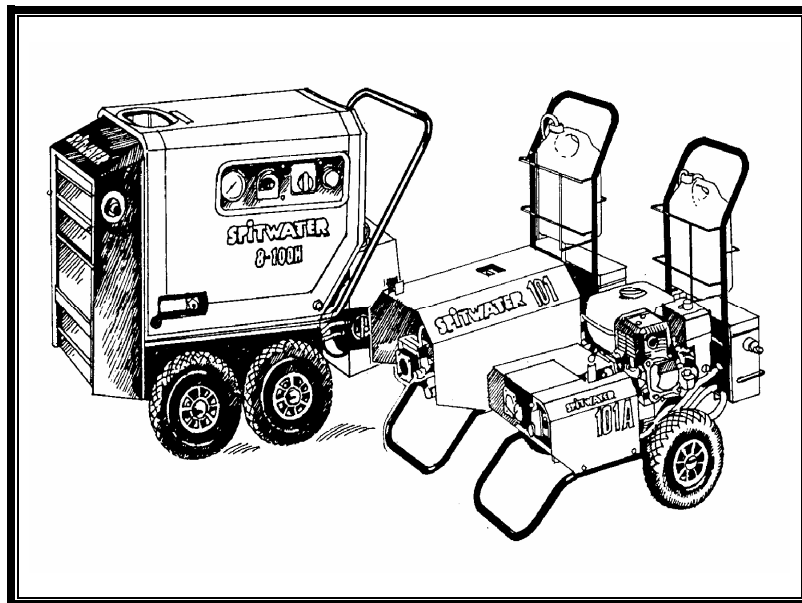
OPERATING AND MAINTENANCE MANUAL

HOT & COLD WATER ELECTRIC MODELS
50HZ



10-120H 13-180H

SW110 SW131 SW151 SW161 SW171 SW201 SW2021



Made By:

 **SPITWATER
AUSTRALIA**

Spitwater Australia Pty Ltd
953 Metry St
North Albury , NSW , Australia

WARNING: FAILURE TO FOLLOW OPERATING, SAFETY AND MAINTENANCE INSTRUCTIONS LISTED IN THIS MANUAL RELEASES THE MANUFACTURER FROM ANY RESPONSIBILITY FOR ACCIDENTS OR DAMAGES TO BOTH HUMANS AND OBJECTS AND MAY RENDER ANY WARRANTY VOID

Congratulations on the choice you have made. This shows your level of technical knowledge and taste for beautiful things. **You have in fact purchased an appliance of high technology made by the largest manufacturer of High Pressure Cleaners in the Southern Hemisphere.**

It is a professional and versatile machine, which you will use for a long time. **Therefore please read and follow these operating instructions carefully.**

TECHNICAL DATA

Model			10-120H	SW110	SW131	13-180H	SW151	SW161	SW171	SW201	SW2021
Flow Rate		L/M-L/H	10-600	12-720	10-600	13-780	14-840	18-1080	13-780	15-900	21-1260
Pressure	Working	Bar-Psi	120-1800	110-1650	130-1950	180-2700	150-2250	160-2400	170-2550	200-3000	200-3000
	EWE Rotojet	Bar-Psi	170-2550	160-2400	180-2700	250-3750	195-2925	210-3150	240-3600	255-3825	255-3825
Max Outlet	Temperature	°C	95	95	95	95	90	85	95	90	80
Max Inlet	Pressure	Bar-Psi	10-150	10-150	10-150	10-150	10-150	10-150	10-150	10-150	10-150
	Temperature	°C	50	50	50	50	50	50	50	50	50
Pump Motor	Power	kW-HP	2.2-3	2.2-3	2.2-3	4-5.5	4-5.5	5.5-7.5	4-5.5	5.5-7.5	7.5-10
	Voltage	V	220-230-240	220-230-240	220-230-240	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415
	Absorption Y	A	13	13	13	8.8	8.8	11.5	8.8	11.5	15.5
	Phases		1	1	1	3	3	3	3	3	3
	Hertz		50	50	50	50	50	50	50	50	50
	Protection	IP	54	54	54	54	54	54	54	54	54
	Insulation	Class	F	F	F	F	F	F	F	F	F
Electrical	Protection		Thermal O/Load	Thermal O/Load	Thermal O/Load	Thermal O/Load	Thermal O/Load	Thermal O/Load	Thermal O/Load	Thermal O/Load	Thermal O/Load
Pump	Model		WW95	W140	W130	WW186	W154	WS162	WS171	WS201	WS202
	Rpm		2800	1450	1450	2800	1450	1450	1450	1450	1450
	Oil Capacity	l	0.33	0.4	0.4	0.4	0.4	1.2	1.2	1.2	1.2
	Oil Type	SAE	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30
Burner Motor	Power	W	150	150	150	150	150	150	150	150	150
	Voltage	V	220-230-240	220-230-240	220-230-240	220-230-240	220-230-240	220-230-240	220-230-240	220-230-240	220-230-240
	Absorption	A	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	Phases		1	1	1	1	1	1	1	1	1
Burner	Nozzle Size	GPH	1.35	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.75
	Consumption	KG/H	4.7	5	5	5	5	5	5	5	7
Diesel Tank	Capacity	l	11	11	11	11	24	24	24	24	24
Hose Length	⁵ / ₁₆ or ³ / ₈	M	8	10	10	8	10	10	10	10	10
Dimension	L x W x H	mm.	970X640X810	1060X640X870	1060X640X870	1060X640X870	1100X640X870	1100X640X870	1100X640X870	1100X640X870	1210X630X900
Weight		kg	140	159	159	159	163	182	175	182	218

The Manufacturer reserves the right to modify designs features and technical data without notice

INTRODUCTION

The SPITWATER HIGH PRESSURE CLEANERS have been designed to give safe, efficient and reliable service. Like any other piece of equipment; however, the unit will only operate at maximum efficiency if the correct operating sequences are followed and proper attention is given to the maintenance procedures.

The purpose of this manual is to provide up to date information necessary to the user for operating, maintaining and servicing the unit, together with fault finding techniques and general specification details and diagrams. The information given, however, may be subject to revision in compliance with the policy of continual improvements.

HEALTH AND SAFETY AT WORK

Manufacturers and suppliers of products for use in the workplace have a duty to ensure, so far as is reasonably practicable, that such products are safe and without risk to health when properly used and to make available to users of such products adequate information about their safe and proper operation.

The SPITWATER High pressure cleaner should only be used in the manner and purpose for which they were intended and in accordance with the recommendation detailed in this Manual and in any other Government Standard applicable in your country. Our units have been designed, produced and inspected with safety in mind; however, there are certain basic precautions which should be taken by the user and in particular, attention is drawn to the safety precautions in this Manual and in the Operating Instruction stickers on the unit itself.

It is imperative therefore, that all persons who may make use of this unit, have all the information and instructions they require to ensure that they are fully aware of the hazards and they know both the purpose and correct manner of operation of our pressure cleaner.

IMPORTANT SAFETY INSTRUCTIONS AND PRECAUTIONS

This booklet contains important information for the use and safe operation of this high pressure cleaner. Read and understand all warnings before you start using the unit.

WARNING: When using this high pressure cleaner:

1. Read all instructions before using this high pressure cleaner.
2. Know how to start and stop the unit and bleed pressure quickly. Be quite familiar with the controls.
3. Follow the maintenance and fault finding procedures outlined in this manual.
4. Keep operating area clear of all persons.
5. To prevent fire hazards, do not use near inflammables such as: gasoline, grain dust, solvents, thinners etc.
6. Stay alert and hold the lance strongly as high pressure cleaners jets produce a strong reaction force
7. This unit is not to be operated by children, teenagers or impaired persons (ie. people under the influence of drugs, alcohol etc).
8. Do not overreach or stand on unstable supports.
9. Read carefully the instructions concerning earthing and extension cords.
10. Do not pull electrical cable in order to unplug the unit.
11. Do not effect temporary repairs on worn or damaged electrical cords and plugs. Have worn, cut or damaged cords and plugs replaced by an authorised service person/electrician.
12. To reduce the risk of electric shock/damage do not aim the water jet onto the unit or any other electrical part and always wear rubber-soled footwear when operating the unit.
13. When using extension cords, it is essential to follow the instructions given in this manual under "EXTENSION CORDS". Wrong choice of wire dimensions can damage and impair the operation of the unit.
14. Keep the unit in a dry building where there is no danger of freezing.
15. Do not exceed the maximum temperature and pressure indicated in the technical data.
16. Never aim the jet in the direction of human beings, because the water jet comes out of the nozzle at high speed with high pressure.
17. Do not pull on high-pressure hose in order to move the unit.
18. Use only high-pressure hoses supplied by Spitwater Australia. In the case of defects, never try to bind up defective hoses, replace them.
19. Do not work in the rain or during thunderstorms.
20. When the unit is working, do not cover and do not place in a closed space where ventilation is insufficient.
21. When finishing work, always secure the handpiece with the lock catch.
22. To prevent injuries always disconnect power plug before disassembling any part of the unit or effecting any servicing and before leaving the machine.
23. All servicing and maintenance procedures should be carried out by an authorised service person using spare parts supplied by Spitwater Australia.
24. Local regulations and standards as to the installation and operation of high-pressure cleaners must be observed.

WARNING: RISK OF INJECTION OR INJURY - DO NOT DIRECT JET STREAM AT PERSONS

SAVE THESE INSTRUCTIONS

READ WITH ATTENTION THE WARRANTY CARD AND MAIL COPY ON THE DATE OF SALE

ELECTRICITY SUPPLY AND EARTHING INSTRUCTIONS

The SPITWATER range of high-pressure cleaners should always be connected to an appropriately earthed power outlet with voltage and current supply matching the ones listed in the data plate affixed on the unit.

WARNING: -This appliance must be earthed to avoid the risk of electrocution should a breakdown / malfunction occur.

All electrical connections and fittings used in installing this unit should be in accordance with local standards and regulations and all electrical work during installation and maintenance should be carried out by a qualified electrician.

EXTENSION CORDS

The use of extension cords should be avoided wherever possible by using longer high-pressure hoses.

If an extension cord must be used it must be a commercial / industrial grade cord designed for outdoor use. The extension cord must have an electrical rating not less than the one of the unit and have an earthing wire.

Extension cords should be kept dry, away from traffic, sharp edges and heat to avoid the risk of electrocution. Connections should not be touched with wet hands and the extension cord should be disconnected from the power outlet prior to disconnecting the unit from the extension cord.

Note: Maximum length of extension cord allowed is 10 meters (30 feet).

INSTALLATION AND OPERATING INSTRUCTIONS

INSTALLATION

1. Identify your unit from the model description on the serial no. / data plate label affixed on the High pressure cleaner and the exploded views contained in this manual. (ALL NUMBERED REFERENCES APPLY TO EXPLODED VIEW OF UNIT)
2. (If necessary) Fit wheels (8) and lock them using hub cap (6-7) provided in the accessories bag.
3. Position the unit on a level surface near a suitable power and water supply (see serial no./ data plate)
4. Connect the front part of the lance (12) to the back part of the lance (26).
5. Connect the high-pressure hose end (30) to the Hand piece (26) and the unit high-pressure outlet (86).
6. Connect the high pressure cleaner to the electrical supply making sure that both voltage and current supply are suitable for the unit as listed on the unit data plate and that the unit is properly earthed. Please note that wrong voltage or insufficient power supply will cause great damage to the unit. Any work needed on initial installation to connect the unit to the power supply must be carried out by a qualified electrician in accordance with local standards and regulations.
7. Connect the inlet connector (18) to the water inlet / float valve (45).
8. Connect the water supply hose to the inlet connector (18) supplied. Make sure that water pressure does not exceed the values listed in this manual and that water flow rate after inlet / gate valve exceeds the one required by the pump as stated on the serial no. / data plate.
9. Open the water supply and fill the water tank (20). The gate valve (45) will automatically stop the water flow when the water tank is full.
10. Replace pump oil travel plug (Red plug) with pump oil dipstick (Yellow plug) provided in the accessories bag.
11. Check the oil level in the pump either using the dipstick or through the oil sight glass in the back of the pump. Minimum oil level is at lower edge of red circle on sight glass or lower notch on dipstick while maximum oil level is at upper edge of red circle on sight glass or upper notch on dipstick. If oil reservoir needs replenishing only use oil of a type as listed in the data sheet in this instruction manual.
12. Remove the diesel tank cap (93) and fill the diesel tank (3) with clean filtered diesel. Only use diesel in this unit, as using any other fuel will create a risk of explosion.
13. Fill the detergent tank (11) with cleaning solution. Only use a cleaning detergent approved by the manufacturer and do not use under any circumstance acid or corrosive products (Contact an authorised service agent or the manufacturer if in doubt).
14. Make sure that the detergent cock knob (79) is in the closed position.
15. Set lance assembly (12) in the low pressure position. See pt 6 instructions on Operating/To start & use instructions.

OPERATING INSTRUCTIONS

TO START AND USE

- 1) Turn Power Supply On at power point if necessary.
- 2) Pull the Trigger of the Handpiece on the back part of lance (26).
- 3) Start the machine by pushing the green start pushbutton (74) {on 10-120H push switch (100)} pull the trigger on the handpiece and allow the water to run through the Pump (14), the Coil (95), the High-Pressure Hose (30), and the Lance for 2-3 minutes in order to expel air from the Hydraulic system. If some air is still in the system after that period of time, open and close the Handpiece 2-3 times to expel the remaining air. **Note: if this is the first time the unit is being run or it has been left idle for a long period of time it is advisable to run the above operation with the front part of lance (12) disconnected from the lance to avoid any debris / scale getting lodged in the nozzle and/or gun assembly.**
- 4) Set the front part of lance (12) in high pressure position. See pt 6 instructions on the Operating/To start & use instructions.
- 5) Check if the pressure on the Pressure Gauge (29) is correct. (See data plate on pump).
- 6) Double lance (12) can be adjusted between high/ low pressure by turning the handle clockwise/anticlockwise.
- 7) Set the temperature required by operating the Thermostat Knob (89) and start the Burner by turning the Burner Switch (76) to the On Position. **The burner will ignite and only work with the Handpiece in the Open Position.** (Burner ignition is controlled by a Pressure Switch (21), which will cut off when the Handpiece is in closed position, and by the Thermostat, which will cut off when the water reaches the temperature set).
- 8) To allow detergent through the injection system, turn anticlockwise the Detergent Cock Knob (79) and turn anticlockwise the Double Lance Handgrip (12). Pull the trigger of the Handpiece and the low pressure will allow the detergent through the injection system.

NOTE: DETERGENT INJECTION CAN BE MADE IN LOW PRESSURE ONLY.

TO STOP

1. Clean the Detergent Line (78-23) after removing it from the detergent bottle in order to prevent blockages in the chemical injection device by dropping the detergent line in clean water and running clean water through it. (For instruction on how to run clear water through the detergent line see point no. 8 above on how to use detergent.)
2. Stop the detergent flow, turning clockwise the Detergent Cock Knob (79).
3. Stop the burner by turning the Burner Switch (76) to the Off Position

4. Run the unit for approximately 5-10 minutes with the trigger on the back part of lance (26) on until the water has cooled.
5. Stop the machine by pushing the red stop pushbutton (75) {on 10-120H push switch (100)}.
6. Pull the trigger of the Handpiece on the back part of lance (26) to release pressure.
WARNING: Do not stop the unit until operation (3) (4) and (5) have been completed as this could cause scale formation in the Coil or lead to premature coil failure due to heat stress.

OPTIONAL EXTRAS (WHERE FITTED)

Your unit may be fitted with optional extras and following are instructions on the unit operation in the case where these are fitted.

LOW WATER/DIESEL CUTOFF

1. The general operation of the unit is the same as above but the unit will be shutdown in case of low water/diesel levels to avoid damage to the pump/diesel pump when using it dry.

TIMING DEVICE

1. The general operation of the unit is the same as above but the timer will shut down the unit if it is left in bypass for longer than 5 minutes. The timer is activated by the pressure switch (21).

STEAM KIT

When a steam kit is fitted to the unit it enables it to produce steam at 150⁰ C as well as operating as a normal hot water pressure cleaner. The general operation of the unit is the same as above but to use the steam function please follow the following instructions:

To Start

1. Remove cover (1) from unit
2. Turn By-Pass knob (15) anticlockwise until pressure is reduced to 50 bar.
3. Re-install cover on unit.
4. Follow steps In the TO START instructions setting the Thermostat (89) on 150⁰ C. Steam will be produced in approximately 4 minutes.

To Stop

1. Follow Steps 3 to 6 in the TO STOP general instructions.
2. Remove cover (1) from unit
3. Turn By-Pass knob (15) anticlockwise until it stops on locknut.
4. Re-install cover on unit.

MAINTENANCE INSTRUCTIONS

To maintain your unit in peak working condition during its operable life it is necessary to carry out regular maintenance operations and replace worn or broken down parts immediately upon their failure. We suggest that a qualified service person carries out all maintenance and that original spare parts be used in effecting repairs to guarantee quality, reliability and longevity. **Failure to follow the above instructions releases the manufacturer from any responsibility in reference to injuries and damages to both persons and goods and may render any warranty given with the units void.**

Please find below a summary table of maintenance operation with a general description on how they should be carried out:

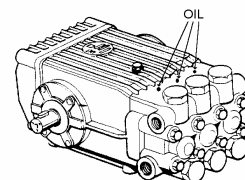
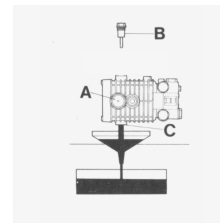
CHECKS TO BE CARRIED OUT BY THE USER

GENERAL

- 1) Power Cable (Each use)
 - a) Check power cable for cuts, abrasion or general damage each time the unit is used. If power cords plugs are damaged they must be replaced immediately (not repaired) by an authorised service person/ electrician.
- 2) Water connections/connectors/lines(Each use)
 - a) Check high-pressure hose, connectors and other connections for leaks.
 - b) Check inlet hose connections for leaks.
- 3) Performance (each use)
 - a) Check machine functionality (ie. operation, pressure etc.) and performance and make sure that everything operates as described in the operating instruction. Should any malfunction occur, stop operating the unit immediately and contact an authorised service person/agent. **Pay particular attention to the fact that there should be no burner ignition if there is no water flowing through the unit. Should any malfunction occur, stop operating the unit immediately and contact an authorised service person/agent**
- 4) Nozzle (every 50 hours)
 - a) Check and clean high-pressure nozzle (38). It is necessary in situation where dirty or contaminated water is used that the nozzle be cleaned more regularly.
- 5) Filters (Every 100 hours)
 - a) Check and clean diesel filter (64).
 - b) Check, clean and drain diesel filter (68). Replace every 1000 hours
 - c) Check and clean water filter (47) Replace every 1000 hours
 - d) Check and clean detergent filter (25).
- 6) Water and Detergent Lines
 - a) The unit should never be stored in areas where freezing conditions can occur unless all water has been expelled from all hydraulic lines (ie. inlet, pump, coil hp hose etc) and detergent lines or an appropriate anti freeze solution has been circulated in the above lines; contact your service agent for appropriate instructions. Failure to follow the above guideline will result in great damage occurring to the unit.
 - b) Keep detergent line clean (23,25,78,) and make sure it is regularly flushed especially if the machine is not used regularly.

PUMP

- 1) Oil
 - a) Check the oil level in the pump either using the dipstick or through the oil sight glass in the back of the pump. Minimum oil level is at lower edge of red circle on sight glass or lower notch on dipstick while maximum oil level is at upper edge of red circle on sight glass or upper notch on dipstick. If oil reservoir needs replenishing only use oil of a type as listed in the data sheet in this instruction manual.(Only use SAE20 W 30 oil)
 - b) Check that oil colour has not gone milky. If so do not operate the unit and contact an authorised service agent/centre immediately.
 - c) Replace the oil after the first 50 hours of operation and every 500 hours after first change or once per year. To replace the oil remove oil plug C and oil dipstick B and let oil fall into container until completely drained. After oil has completely drained replace oil plug C and refill using only SAE 20 W 30 oil until mark on sight glass A or oil dipstick B has been reached. Dispose of waste oil according to local regulations and standards.
- 2) General
 - a) If the unit has been left unused for long periods of time before restarting the unit a few drops of oil should be placed on the pump vents to lubricate the seals at start up. (Note that not all pumps are fitted with these vents)



CHECKS TO BE PERFORMED BY AUTHORIZED SERVICE PERSON/AGENT

Checks and the interval times at which they should occur that have to be performed by and authorised service person/agent are summarised below. It is essential that such checks and repairs be carried out by an authorised service person/agent as they have the necessary experience and training to carry them out.

SUMMARY OF CHECKS TO BE CARRIED OUT BY THE USER		SUMMARY OF CHECKS TO BE CARRIED OUT BY AN AUTHORIZED SERVICE PERSON/AGENT	
Power cable/water connections/ hp hose/performance	Each use	Descaling of coil	Each 1500 hours
Nozzle clean and inspect	Each 50 hours	Clean Diesel pump	Each 300 hours
Water and Detergent lines	Each 50 hours	Replace diesel nozzle	Each 500 hours
Filters	Each 100 hours	Clean Diesel tank	Each 300 hours
Pump oil first change	After 50 hours	Check adjustment of electrodes	Each 300 hours
Pump oil change after first change	Each 500 hours	Replace electrodes	Each 500 hours
Others checks	See Above	Check and if necessary replace pump seals	Each 750 hours
		Replace High pressure nozzle	Each 200 hours
		Check pressure switch	Each 100 hours
		Check combustion and settings of all diesel and Hydraulic line safety mechanisms	Once a Year or every 500 hours whichever comes first

NOTE:

- 1) The time indication for checks and replacement listed above are for units subject to normal operating conditions. Should the unit be subject to abnormal conditions (ie. heavy duty use, dirty water or fuel, extreme temperatures or climatic conditions etc.) the times should be reduced accordingly
- 2) Should the unit be subject to very limited use all checks and if necessary replacements should be carried out at least once per year.

TROUBLESHOOTING

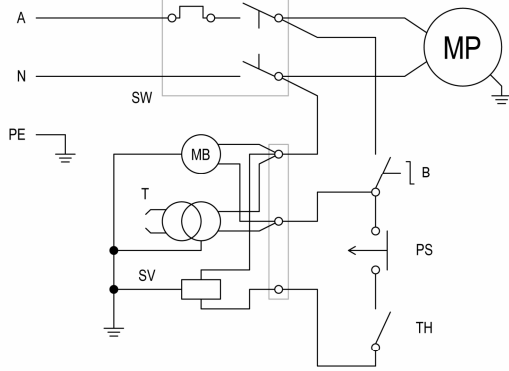
FAULT	CAUSE	REMEDY
The pump is running normally but the pressure does not achieve rated values	Pump Sucking air Nozzle is blocked Water filter dirty	Check that hoses and fitting on inlet side of pump are airtight. Check and clean nozzle Check and clean water filter
Fluctuating Pressure	Pump Sucking Air Water filter dirty	Check that hoses and fitting on inlet side of pump are airtight. Check and clean water filter
Pressure drops after a period of normal use		Contact authorised service person/agent
Pump is noisy	Pump Sucking air Water inlet is too hot	Check that hoses and fitting on inlet side of pump are airtight. Reduce water inlet temperature below 50° C
Presence of water in pump oil		Contact authorised service person/agent
Water dripping from under pump		Contact authorised service person/agent
Oil dripping from under pump		Contact authorised service person/agent
The motor does not start when switch is activated	Plug is not connected If fitted: Low water/diesel cut off is activated No power supply	Check the plug Check that water /diesel tank are full and add water/diesel as necessary Contact an authorised electrician to check power supply
When switch is activated the motor hums but does not run	Incorrect extension cable Incorrect or insufficient voltage or amperage	See instructions in manual and replace with an extension cord of correct size and length Contact an authorised electrician to check power supply
The motor stops		Contact authorised service person/agent
The burner doesn't work	Lack of diesel Diesel filters dirty	Check and fill diesel tank Check and clean diesel filters
The Burner continues combustion when the washing gun is off		Turn the unit off immediately and do not use! Contact authorised service person/agent immediately to rectify the problem!

NOTE: If the fault cannot be identified or corrected using the above list (or remedy states contact Authorised service person/agent) stop using the machine immediately and contact an authorised service person /agent to rectify the fault.

HYDRAULIC AND ELECTRICAL DIAGRAMS

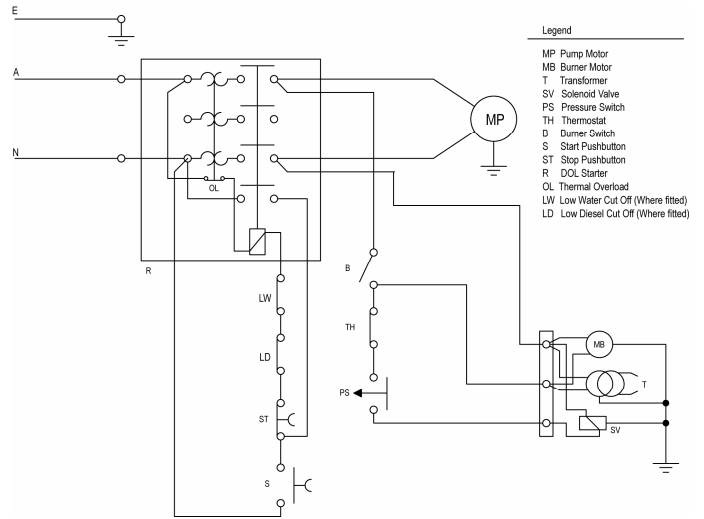
WIRING DIAGRAM 220/230/240 50HZ SINGLE PHASE

10-120H



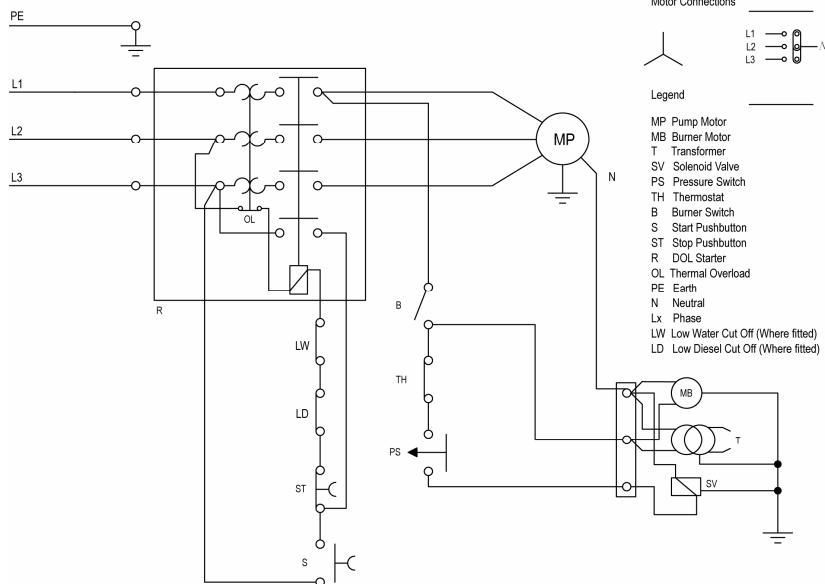
- B Burner Switch
- PS Pressure Switch
- SW Start/Stop Switch
- MB Burner Motor
- MP Pump Motor
- SV Solenoid Valve
- T Ignition Transformer
- TH Thermostat

SW110 – SW131



- Legend
- MP Pump Motor
 - MB Burner Motor
 - T Transformer
 - SV Solenoid Valve
 - PS Pressure Switch
 - TH Thermostat
 - D Burner Switch
 - S Start Pushbutton
 - ST Stop Pushbutton
 - R DOL Starter
 - OL Thermal Overload
 - LW Low Water Cut Off (Where fitted)
 - LD Low Diesel Cut Off (Where fitted)

WIRING DIAGRAM 380/400/415V 50HZ THREE PHASE

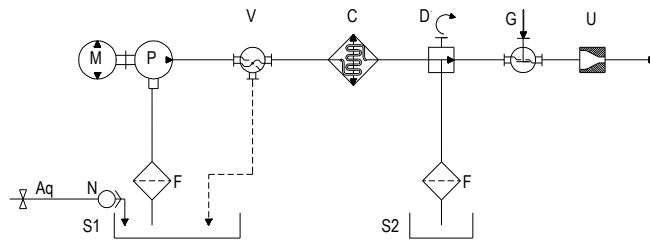


Motor Connections



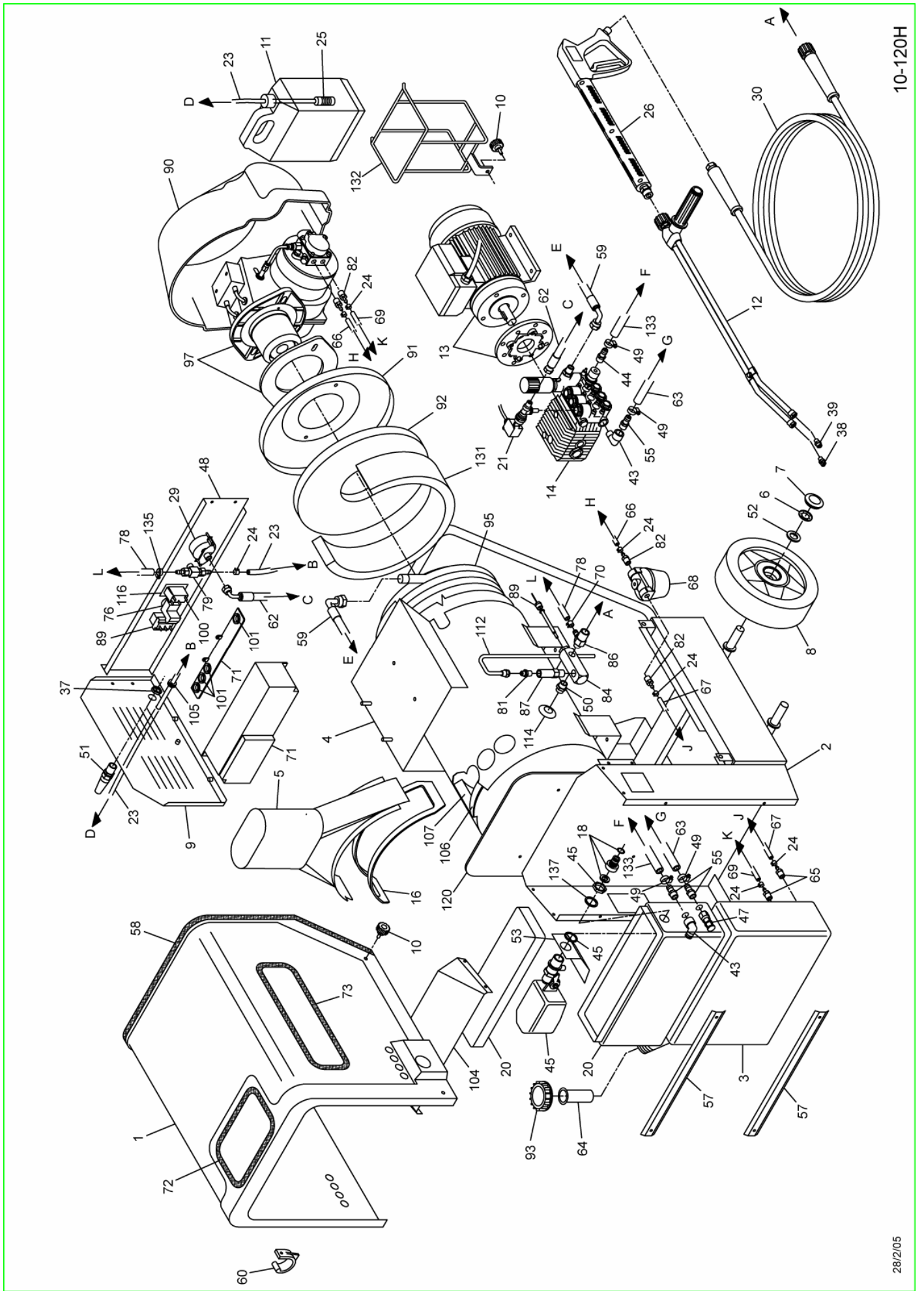
- Legend
- MP Pump Motor
 - MB Burner Motor
 - T Transformer
 - SV Solenoid Valve
 - PS Pressure Switch
 - TH Thermostat
 - B Burner Switch
 - S Start Pushbutton
 - ST Stop Pushbutton
 - R DOL Starter
 - OL Thermal Overload
 - PE Earth
 - N Neutral
 - Lx Phase
 - LW Low Water Cut Off (Where fitted)
 - LD Low Diesel Cut Off (Where fitted)

HYDRAULIC DIAGRAM HOT WATER WITH BREAK TANK

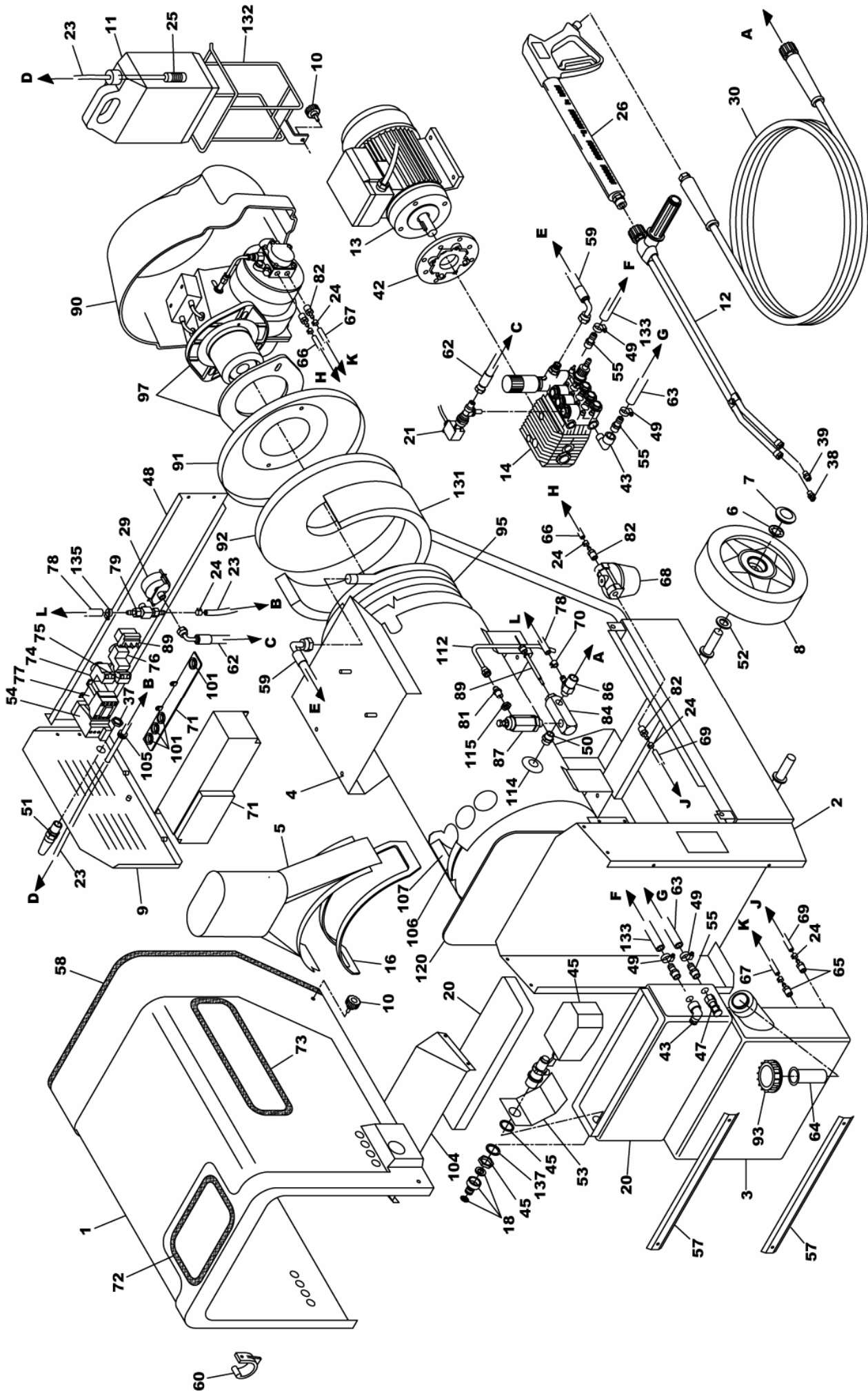


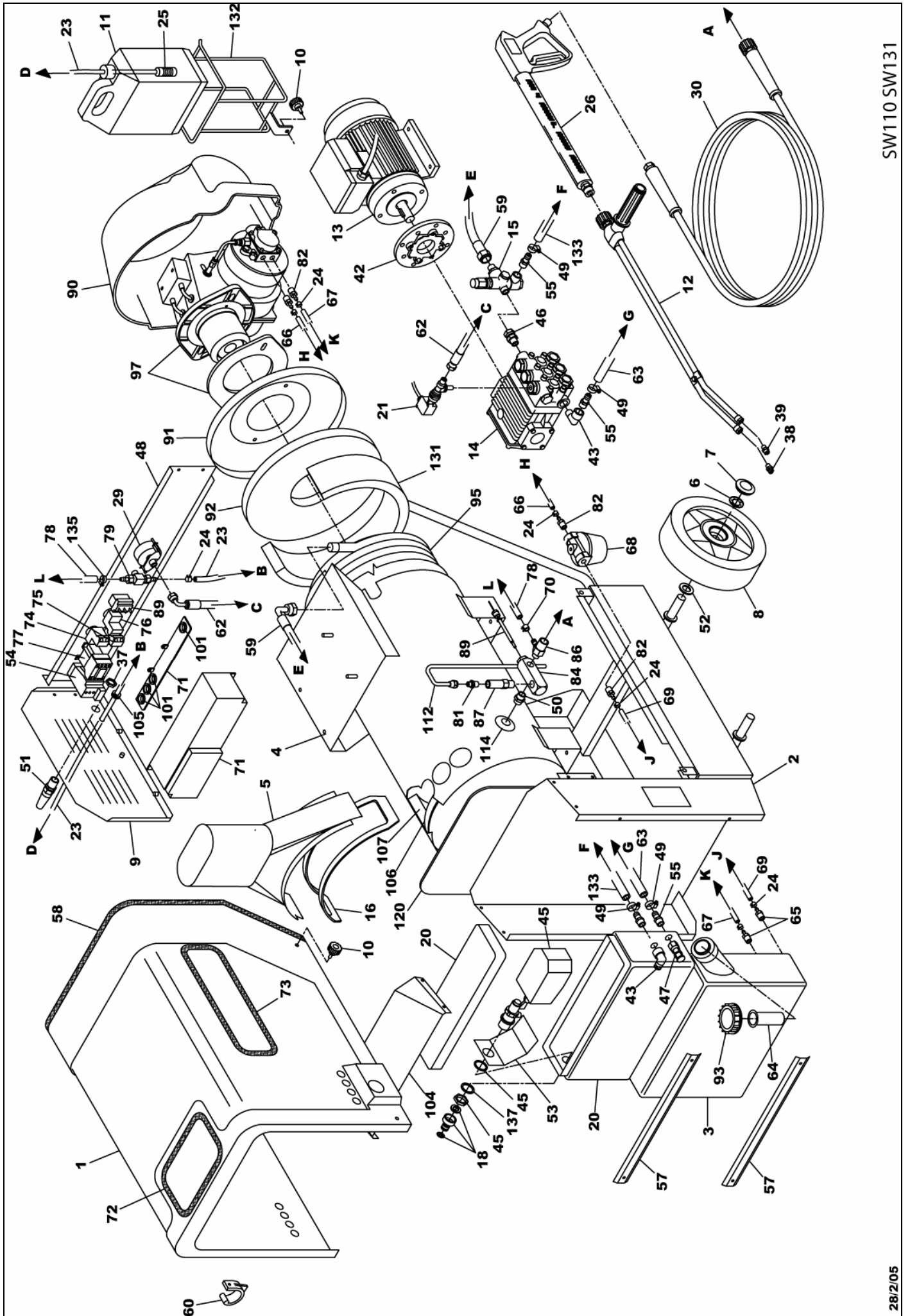
- M Motor
- P Pump
- V Bypass Valve
- C Coil
- D Detergent tap
- G Handpiece trigger
- U Nozzle
- F Filter
- S1 Break tank
- S2 Detergent tank
- Aq Water inlet
- N Non return valve

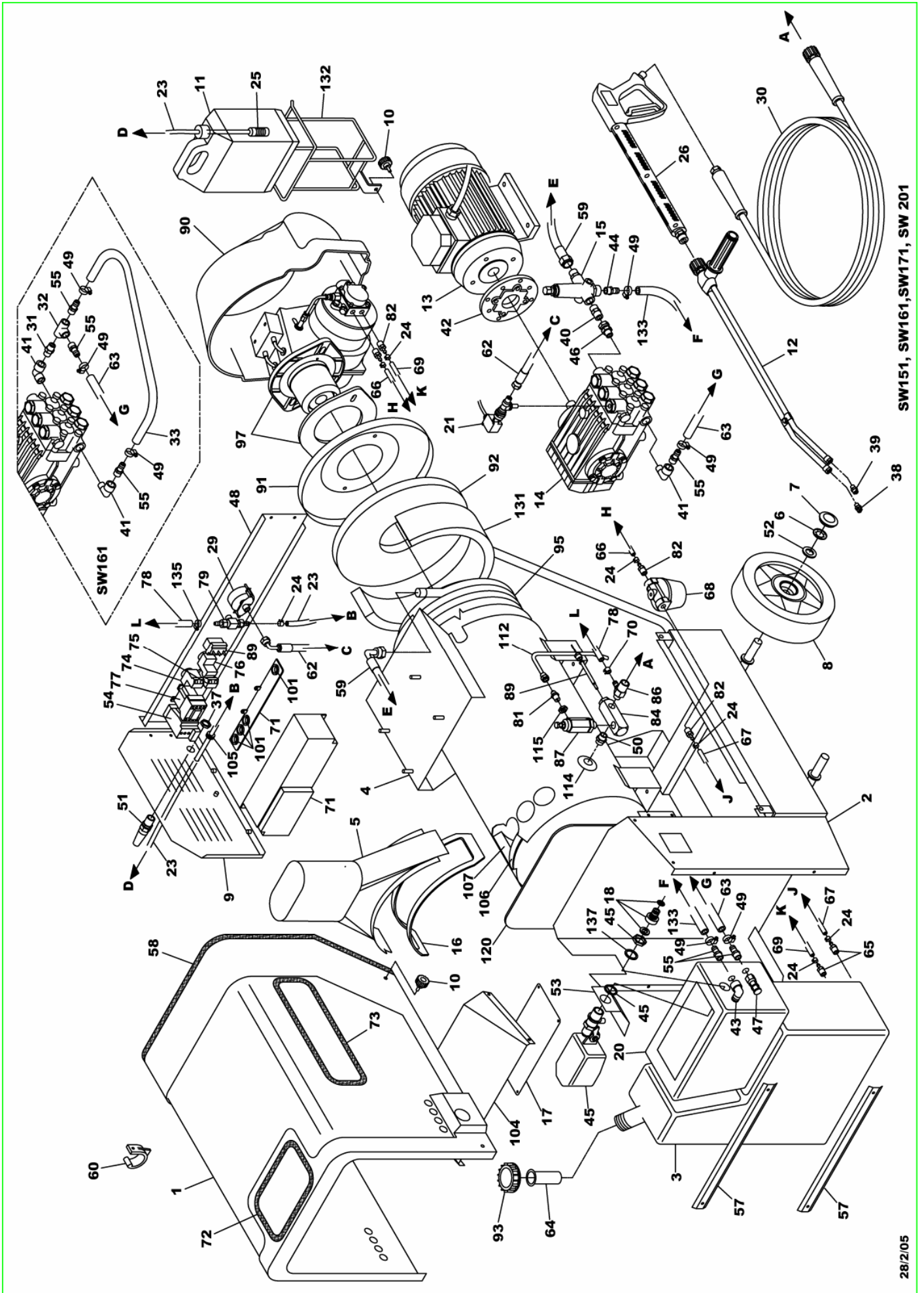
Hot Water Units Fitted
With Break Tank



10-120H







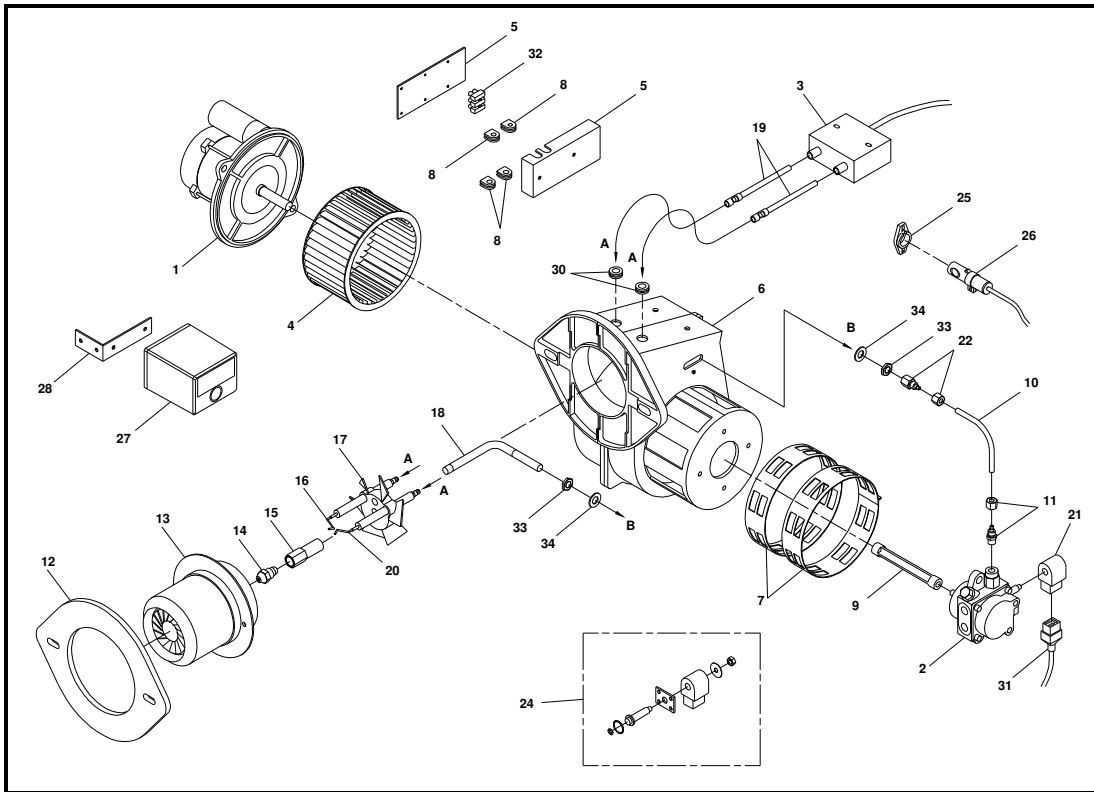
SW151, SW161, SW171, SW 201

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No	Description	Q T Y	10-120H	Q T Y	SW110 VB7	Q T Y	SW131 VB7	Q T Y	13-180H	Q T Y	SW151 K5	Q T Y	SW161 K5	Q T Y	SW171 K5	Q T Y	SW201 K5
1	BODY COVER	1	48082	1	48084	1	48084	1	48084	1	48084	1	48084	1	48084	1	48084
2	FRAME BASE	1	48026	1	48025	1	48025	1	48025	1	48952	1	48952	1	48952	1	48952
3	DIESEL TANK	1	48030	1	48030	1	48030	1	48030	1	48030/B	1	48030/B	1	48030/B	1	48030/B
4	CYLINDER	1	48504	1	48505	1	48505	1	48505	1	48505	1	48502	1	48502	1	48502
5	STACK	1	44910/A	1	44910/B	1	44910/B	1	44910/B	1	44910/B	1	44910/B	1	44910/B	1	44910/B
6	HUB CAP BLOK	4	33265/C	4	33265/C	4	33265/C	4	33265/C	4	33265/C	4	33265/C	4	33265/C	4	33265/C
7	HUB CAP COVER	4	33265/B	4	33265/B	4	33265/B	4	33265/B	4	33265/B	4	33265/B	4	33265/B	4	33265/B
8	WHEEL	4	33265	4	33265	4	33265	4	33265	4	33265	4	33265	4	33265	4	33265
9	PANEL FRAME	1	48511	1	48512	1	48512	1	48512	1	48512	1	48512	1	48512	1	48512
10	FASTENING KNOB	5	46236	5	46236	5	46236	5	46236	5	46236	5	46236	5	46236	5	46236
11	DETERGENT BOTTLE	1	47002	1	47002/A	1	47002/A	1	47002/A	1	47002/A	1	47002/A	1	47002/A	1	47002/A
12	FRONT PART DOUBLE LANCE	1	SWA07	1	SWA07	1	SWA07	1	SWA07	1	SWA07	1	SWA07	1	SWA07	1	SWA07
13	MOTOR	1	48314	1	48316	1	48316	1	48307	1	48309	1	48310	1	48309	1	48310
14	PUMP	1	IPP74	1	IPP83	1	IPP81	1	IPP89=	1	IPP85	1	IPP39	1	IPP41	1	IPP43
15	BYPASS VALVE	=	=	1	48236/A	1	48236/A	=	=	1	IPA027/A	1	IPA027/B	1	IPA027/A	1	IPA027/A
16	STACK SEAL	1	47111	1	47111	1	47111	1	47111	1	47111	1	47111	1	47111	1	47111
17	WATER TANK COVER	=	=	=	=	=	=	=	=	1	48970	1	48970	1	48970	1	48970
18	TAILPIECE A/NZ COMPLETE	1	70559	1	70559	1	70559	1	70559	1	70559	1	70559	1	70559	1	70559
20	WATER TANK	1	48032	1	48032	1	48032	1	48032	1	48032/A	1	48032/A	1	48032/A	1	48032/A
21	PRESSURE SWITCH	1	PA29009940	1	PA29009940	1	PA29009940	1	PA29009940	1	PA29009940	1	PA29009940	1	PA29009940	1	PA29009940
23	DETERGENT HOSE	1	44539	1	44539	1	44539	1	44539	1	44539	1	44539	1	44539	1	44539
24	HOSE CLAMP	7	46240	7	46240	7	46240	7	46240	7	46240	7	46240	7	46240	7	46240
25	DETERGENT FILTER	1	46241	1	46241	1	46241	1	46241	1	46241	1	46241	1	46241	1	46241
26	BACK PART LANCE W/GUN	1	SWA05	1	SWA05	1	SWA05	1	SWA05	1	SWA05	1	SWA05	1	SWA05	1	SWA05
29	PRESSURE GAUGE	1	47105	1	47105	1	47105	1	47105	1	47105	1	47105	1	47105	1	47105
30	HIGH PRESSURE HOSE	1	48749	1	44331	1	44331	1	46604	1	44331	1	46605	1	46605	1	46605
31	NIPPLE M/M 3/8-3/8 CONIC	=	=	=	=	=	=	=	=	=	=	1	48752/A	=	=	=	=
32	FEMALE T 3/8	=	=	=	=	=	=	=	=	=	=	1	48742	=	=	=	=
33	CONNECTION HOSE	=	=	=	=	=	=	=	=	=	=	1	48733/C	=	=	=	=
37	NUT SPIRALBLOCK	1	48430/A	1	48430/A	1	48430/A	1	48430/A	1	48430/A	1	48430/A	1	48430/A	1	48430/A
38	HIGH PRESSURE NOZZLE	1	47021/3515	1	47021/0415	1	47021/2515	1	47021/3515	1	47021/0415	1	47021/0615	1	47021/3515	1	47021/4515
39	LOW PRESSURE NOZZLE	1	46217	1	46217	1	46217	1	46217	1	46217	1	46217	1	46217	1	46217
40	NIPPLE M/M 3/8 - 3/8S	=	=	=	=	=	=	=	=	1	48752	1	48752	1	48752	1	48752
41	ELBOW 1/2M-3/8F	=	=	=	=	=	=	=	=	1	48772	2	48772	1	48772	1	48772
42	FLANGE	=	=	1	48244	1	48244	1	48244	1	48244	1	48247	1	48247	1	48247
43	ELBOW 3/8M-3/8F	2	48774	2	48774	2	48774	2	48774	1	48774	1	48774	1	48774	1	48774
44	HOSEBARB 1/2	1	47036/A	=	=	=	=	=	=	1	47036/A	1	47036/A	1	47036/A	1	47036/A
45	CISTERN COCK VALVE	1	48531	1	48531	1	48531	1	48531	1	48531	1	48531	1	48531	1	48531
46	SWIVEL M/F 3/8	=	=	1	47026	1	47026	=	=	1	47026	1	47026	1	47026	1	47026
47	WATER FILTER	1	48767	1	48767	1	48767	1	48784	1	48784	1	48784	1	48784	1	48784
48	ELECTRIC PANEL	1	48513	1	48514	1	48514	1	48514/A	1	48514/A	1	48514/A	1	48514/A	1	48514/A
49	HOSE CLAMP	4	70597/C	4	70597/C	4	70597/C	4	70597/C	4	70597/C	6	70597/C	4	70597/C	4	70597/C
50	NIPPLE 1/2-3/8	1	47134	1	47134	1	47134	1	47134	1	47134	1	47134	1	47134	1	47134
51	SPIRALBLCK	1	48430	1	48430	1	48430	1	48430	1	48430	1	48430	1	48430	1	48430
52	WASHER 20mm.	4	70200/P	4	70200/P	4	70200/P	4	70200/P	4	70200/P	4	70200/P	4	70200/P	4	70200/P
53	SPLASH PROTECTION	1	48875	1	48875	1	48875	1	48875	1	48875/A	1	48875/A	1	48875/A	1	48875/A
54	MOTOR O/LOAD SWITCH	=	=	1	44920	1	44920	1	44920/A	1	44920/A	1	44920	1	44920/A	1	44920
55	HOSEBARB 3/8BSP-1/2	3	48775	4	48775	4	48775	4	48775	3	48775	5	48775	3	48775	3	48775
57	TANK PROTECTION	2	48553	2	48553	2	48553	2	48553	2	48553	2	48553	2	48553	2	48553
58	PROTECTION MOULDING	1	48440	1	48440	1	48440	1	48440	1	48440	1	48440	1	48440	1	48440
59	HIGH PRESSURE HOSE	1	48706/F	1	48706/C	1	48706/C	1	48706/I	1	48706/C	1	48706/M	1	48706/M	1	48706/M
60	LANCE HOLDER	2	48876	2	48876	2	48876	2	48876	2	48876	2	48876	2	48876	2	48876
62	PRESSURE GAUGE HOSE	1	48705/C	1	48705/C	1	48705/C	1	48705/C	1	48705/C	1	48705/C	1	48705/C	1	48705/C
63	SUCTION HOSE 20mm.	1	48733/A	1	48733/A	1	48733/A	1	48733/A	1	48733/C	1	48733/D	1	48733/B	1	48733/B
64	TANK DIESEL FILTER	1	44680	1	44680	1	44680	1	44680	1	44680	1	44680	1	44680	1	44680
65	BARB 1/8BSP -1/4	2	44541	2	44541	2	44541	2	44541	2	44541	2	44541	2	44541	2	44541
66	DIESEL HOSE	1	48777	1	48777	1	48777	1	48777	1	48777	1	48777	1	48777	1	48777
67	DIESEL HOSE	1	48778	1	48785	1	48785	1	48785	1	48785	1	48785	1	48785	1	48785
68	DIESEL FILTER	1	48701	1	48701	1	48701	1	48701	1	48701	1	48701	1	48701	1	48701
69	DIESEL HOSE	1	48779	1	48786	1	48786	1	48786	1	48786	1	48786	1	48786	1	48786
70	HOSE CLAMP	1	100138	1	100138	1	100138	1	100138	1	100138	1	100138	1	100138	1	100138
71	ELECTRIC PANEL PROTECTION	1	44036	1	44036	1	44036	1	44036	1	44036	1	44036	1	44036	1	44036
72	PROTECTIVE MOULDING	1	48441	1	48441	1	48441	1	48441	1	48441	1	48441	1	48441	1	48441
73	PROTECTIVE MOULDING	1	48442	1	48442	1	48442	1	48442	1	48442	1	48442	1	48442	1	48442
74	START PUSHBUTTON	=	=	1	44917	1	44917	1	44917	1	44917	1	44917	1	44917	1	44917
75	STOP PUSHBUTTON	=	=	1	44918	1	44918	1	44918	1	44918	1	44918	1	44918	1	44918

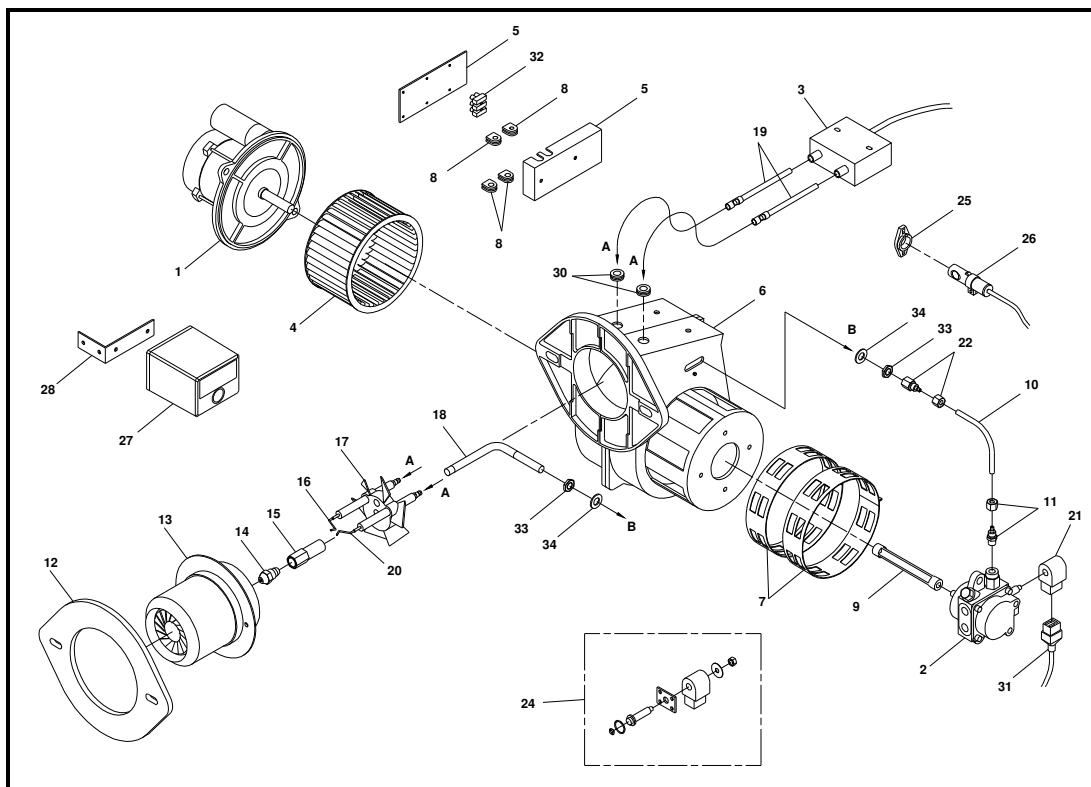
No	Description	Q T Y	10-120H	Q T Y	SW110 VB7	Q T Y	SW131 VB7	Q T Y	13-180H	Q T Y	SW151 K5	Q T Y	SW161 K5	Q T Y	SW171 K5	Q T Y	SW201 K5
76	BURNER SWITCH	1	44916	1	44916	1	44916	1	44916	1	44916	1	44916	1	44916	1	44916
77	CONTACTOR		=	1	44919/B	1	44919/B	1	44919/A	1	44919/A	1	44919	1	44919/A	1	44919
78	DETERGENT HOSE	1	48787	1	48788	1	48788	1	48788	1	48788	1	48788	1	48788	1	48788
79	DETERGENT COCK	1	PA29094515	1	PA29094515	1	PA29094515	1	PA29094515	1	PA29094515	1	PA29094515	1	PA29094515	1	PA29094515
81	NIPPLE 1/4-7/16x24	1	33212	1	33212	1	33212	1	33212	1	33212	1	33212	1	33212	1	33212
82	BARB 1/4 BSP 1/4	4	47039	4	47039	4	47039	4	47039	4	47039	4	47039	4	47039	4	47039
84	SUMP	1	47211	1	47211	1	47211	1	47211	1	47211	1	47211	1	47211	1	47211
86	CHIMJET2	1	48262	1	48262	1	48262	1	48262	1	48262	1	48262	1	48262	1	48262
87	SAFETY VALVE	1	48234	1	48234	1	48234	1	46209	1	46209	1	46209	1	46209	1	46209
89	MECHANICAL THERMOSTAT	1	47210/A	1	47210/A	1	47210/A	1	47210/A	1	47210/A	1	47210/A	1	47210/A	1	47210/A
90	BURNER PROTECTION COVER	1	48071	1	48071	1	48071	1	48071	1	48071	1	48071	1	48071	1	48071
91	BURNER SUPPORT	1	44091	1	44091	1	44091	1	44091	1	44091	1	44091	1	44091	1	44091
92	CERAMIC FIBRE DISC	1	44901	1	44901	1	44901	1	44901	1	44901	1	44901	1	44901	1	44901
93	TANK CAP	1	48750	1	48750	1	48750	1	48750	1	48750	1	48750	1	48750	1	48750
95	COIL - SEAMLESS TUBE	1	48040/C	1	47133/C	1	47133/C	1	47133/C	1	47133/C	1	47133/C	1	47133/C	1	47133/C
	COIL - STAINLESS TUBE	1	48040/A	1	47133/A	1	47133/A	1	47133/A	1	47133/A	1	47133/A	1	47133/A	1	47133/A
97	BURNER	1	44902/01	1	44902/02	1	44902/02	1	44902/02	1	44902/02	1	44902/02	1	44902/02	1	44902/02
100	SWITCH ETA WITH PROT.	1	48942		=		=		=		=		=		=		=
101	RUBBER GROMMET	4	33368	4	33368	4	33368	4	33368	4	33368	4	33368	4	33368	4	33368
104	TANK PROTECTION	1	48546	1	48544	1	48544	1	48544	1	48545	1	48545	1	48545	1	48545
105	RUBBER GROMMET	1	48431	1	48431	1	48431	1	48431	1	48431	1	48431	1	48431	1	48431
106	CERAMIC FIBRE DISC	1	44901/A	1	44901/A	1	44901/A	1	44901/A	1	44901/A	1	44901/A	1	44901/A	1	44901/A
107	CERAMIC FIBRE	1	44901/C	1	44901/C	1	44901/C	1	44901/C	1	44901/C	1	44901/C	1	44901/C	1	44901/C
112	PIPE SAFETY VALVE+NUT	1	48734	1	48734	1	48734	1	48735	1	48735	1	48735	1	48735	1	48735
114	WASHER mm.50S/S	1	44890	1	44890	1	44890	1	44890	1	44890	1	44890	1	44890	1	44890
115	NUT 1/4		=		=		=	1	33354	1	33354	1	33354	1	33354	1	33354
116	SWITCH PROTECTION	1	44891		=		=		=		=		=		=		=
120	INSULATION	1	44906/A	1	44906/B	1	44906/B	1	44906/B	1	44906/C	1	44906/C	1	44906/C	1	44906/C
131	CERAMIC FIBRE	1	44899/B	1	44899/B	1	44899/B	1	44899/B	1	44899/B	1	44899/B	1	44899/B	1	44899/B
132	BASKET DETERGENT	1	44930	1	48048	1	48048	1	48048	1	48048	1	48048	1	48048	1	48048
133	BYPASS HOSE	1	48799/B	1	48799	1	48799	1	48799/E	1	48799/A	1	48799/D	1	48799/C	1	48799/C
134	LOW LEVEL CUTOFF (if fitted)		=		=		=		SWA51		SWA51		SWA51		SWA51		SWA51
135	HOSE CLAMP	1	70597/A	1	70597/A	1	70597/A	1	70597/A	1	70597/A	1	70597/A	1	70597/A	1	70597/A
137	WASHER 3/4	1	70200/Z	2	70200/Z	2	70200/Z	2	70200/Z	2	70200/Z	2	70200/Z	2	70200/Z	2	70200/Z

44902/01-BURNER 10-120H



N O.	Description	Part No.	No.	Description	Part No.
1	Motor	44250	17	Baffle	44934
2	Pump with Solenoid Valve	44924	18	Distillate Pipe	44935
3	Transformer	49099	19	High Voltage Cable	44936
4	Fan	44656/A	20	Electrode Left	44763
5	Terminal Box with Lid	44925	21	Solenoid Coil	44937
6	Fan Housing	44051	22	Rilsan Nipple 1/8" Female	48765
7	Air Adjustment Ring	44926	24	Kit for Diesel pump	Sw104
8	Grommet – Dia 5.5 Dia 6.5 Dia 7.5	48438	25	Photocell(Optional)	48413
			26	Photocell Holder(Optional)	48414
			27	Combustion Cont.Box(Opt)	48415
9	Joint	44929	28	Comb. C/Box Bracket(Opt)	48463
10	Distillate Hose	48739	30	Grommet	48431
11	Rilsan Nipple 1/8" Male	44342	31	Lead – Solenoid Valve	48437
12	Gasket	44101	32	Terminal Block – 3 Way	33121
13	Electrode Housing	44932/A	33	Nut 1/8" Bsp	100155
14	Nozzle 1.35Gph	44571/D	34	Flat Washer 10.5x21x1.5	70200/I
15	Nozzle Bearer	44933			
16	Electrode Right.	44764			

44902/02-BURNER 13-180H SW110 SW131 SW151 SW161 SW171 SW201



N O.	Description	Part No.	No.	Description	Part No.
1	Motor	44250	17	Baffle	44934
2	Pump with Solenoid Valve	44924	18	Distillate Pipe	44935/A
3	Transformer	49099	19	High Voltage Cable	44936
4	Fan	44656/A	20	Electrode Left	44763
5	Terminal Box with Lid	44925	21	Solenoid Coil	44937
6	Fan Housing	44051	22	Rilsan Nipple 1/8" Female	48765
7	Air Adjustment Ring	44926	24	Kit for Diesel pump	Sw104
8	Grommet – Dia 5.5 Dia 6.5 Dia 7.5	48438	25	Photocell(Optional)	48413
			26	Photocell Holder(Optional)	48414
			27	Combustion Cont.Box(Opt)	48415
9	Joint	44929	28	Comb. C/Box Bracket(Opt)	48463
10	Distillate Hose	48739	30	Grommet	48431
11	Rilsan Nipple 1/8" Male	44342	31	Lead – Solenoid Valve	48437
12	Gasket	44101	32	Terminal Block – 3 Way	33121
13	Electrode Housing	44932	33	Nut 1/8" Bsp	100155
14	Nozzle 1.50Gph	44571/B	34	Flat Washer 10.5x21x1.5	70200/I
15	Nozzle Bearer	44933			
16	Electrode Right.	44764			