



Industrial Equipment

Operating Instructions
Single Phase Hot Water Electric
Pressure Cleaner



Operating Instructions

Electric Hot Water Pressure Cleaner

Congratulations on the purchase of your new Jetwave product. Before attempting to operate your machine, please read all of the instructions to ensure safe and trouble free service from your Jetwave cleaning machine.

Component Checklist

The following standard accessories should have accompanied your machine: -

- (1) Hose assembly;
- (2) Gun and lance assembly;
- (3) Manufacturers motor and pump assembly specifications;
- (4) Warranty card;
- (5) Detergent line with filter.

Contact your point of purchase immediately if any of the above components are missing.

Pre-Operation Instructions

- (1) Ensure that the machine is switched off before proceeding with the following instructions.
- (2) Connect the high-pressure hose to the pump outlet.
- (3) Connect the water supply to the inlet water fitting on the pump. Ensure that the water supply is sufficient for the operation of the pump, if you are uncertain of the suitability of the water supply then refer to the recommended flow rate, which is displayed on the data plate on the pump body.
- (4) Ensure that the water inlet supply filter is not blocked due to the presence of foreign particles in the water supply. Clean the water inlet supply filter regularly to ensure smooth operation.
- (5) Check that the oil level on the pump indicates the correct level.

(6) OPERATION

- (i) **Read the chapter on safety precautions before proceeding to use this machine;**
 - (ii) Turn water supply ON
 - (iii) Switch machine to ON position
 - (iv) Switch the Burner to the ON position and set the thermostat to the required temperature
 - (v) Point the lance towards the object to be cleaned and depress the trigger on the gun;
- (7) To end operation
- (i) Switch the machine Burner OFF at the on/off switch;
 - (ii) Continue to run cold water through the Gun/Lance to cool the heating coil
###Continue to cool for approximately 60 seconds###
 - (iii) Switch the power point off and disconnect plug from the power point;
 - (iv) Turn the inlet water off at the tap;
 - (v) Pull the trigger on the gun to release any backpressure;
 - (vi) Disconnect both the water inlet supply hose and the water outlet high-pressure hose.

Important Safety Precautions

- (1) Never direct the spray jet at any person or animal;
- (2) Never place any part of your body over the nozzles;
- (3) Never direct the spray jet towards either the machine itself or any electrical item;
- (4) After use, pull the trigger on the gun to release any backpressure;
- (5) When not in use, ensure that the machine is switched off and is disconnected from both power supply and inlet water supply;
- (6) Do not attempt any mechanical repair yourself. Should your machine require either service or repair then please contact your local Jetwave agent;
- (7) Never supply any liquid other than water to the water inlet;
- (8) Never pull on the high pressure hose if it has formed kinks or nooses;
- (9) Never drag the hose over sharp objects;
- (10) Do not attempt to disconnect either the hose or any couplings whilst there is pressure in the hose. Refer to point (4) above.
- (11) Do not operate the machine whilst on a ladder;
- (12) Never allow children to either operate or play with the machine;
- (13) The use of safety glasses is recommended when using the machine to prevent any loose particles disturbed by the high-pressure spray coming into contact with your eyes.

Use

CHECKS BEFORE USE

- Check that there is gas oil in the opposite tank, if not, fill up;
- Check that the thermostat is in "O" °C position;
- Start the machine acting in the opposite (ON/OFF) burner switch and wait for 30 seconds to obtain the filling of gas oil pump, act on the thermostat knob and put the temperature selector at 90° C for almost 30 seconds, select the water working temperature acting on the same knob.

Tips & Hints

- (1) Regularly check the oil level in the pump. The oil level should be maintained at the level indicated on the pump.
- (2) Top up the oil in the pump when required using SAE 20W 50 oil. Never mix different grades of oil.
- (3) Use a good quality 13mm (inside diameter) water supply hose and connect to the water inlet on the pump using a hose clamp. Ensure that this connection is tight to avoid leaks.
- (4) Ensure that the tap on the water supply is fully opened before operating the machine.
- (5) Where possible, avoid the use of long extension leads as these will cause the machine to overheat and will void warranty.
- (6) After detergent use, flush the machine for a few minutes with clean water.

Burner Maintenance

- (7) The burner installed on our high pressure cleaner, runs only with gas oil. Periodically check and clean the filters and the fuel nozzle, we recommend the replacement of the same every 400 working hours.

Coil

- (8) If the coil is covered in soot, you should check the burner at the Customer Service Centre.

Trouble Shooting

The following table is provided as a general guide only. Please refer to your local Jetwave agent for service, repairs or specific advice.

Fault	Probable Cause	Possible Remedy
Pump runs normally but pressure does not achieve rated value.	Pump is sucking air.	Check that all hoses and fittings are airtight.
	Valves are worn or dirty.	Check, clean or replace.
	Unloader valve packaging worn.	Check and replace.
	Nozzle incorrect or worn.	Check and replace.
	Worn piston packing.	Check and replace.
	Dirty filter.	Check and clean.
Fluctuating pressure.	Valves dirty, worn or stuck.	Check, clean or replace.
	Pump sucking air.	Check that all hoses and fittings are airtight.
	Worn piston packing.	Check and relace.
	Dirty filter.	Check and clean.
Presence of water in oil.	High humidity in air.	Check and change oil twice as often.
	Piston packing or oil seal worn.	Check and replace.
	Water entering through breather.	Excessive water on machine.
Water dripping from pump.	Piston packing worn.	Check and replace.
	Piston guide o'rings worn.	Check and replace.
Dripping oil.	Worn oil seals.	Check and replace.
	Oil coming out of breather.	Pump oil level overfull.
Motor does not start when switched on.	Plug not well-connected or unreliable power supply.	Check plug, cable and switch.
	Earth leakage overload.	Check earth leakage.
When switched on the motor hums but does not run.	Mains voltage is insufficient.	Check adequacy of mains power supply.
Motor stops suddenly during operation.	Thermal overload tripped due to overheating.	Check mains voltage for fluctuations.
The water does not reach working temperature.	Damaged thermostat.	Replace.
	Thermostat adjusted too low.	Place the thermostat at the required temperature.
	Scale in the hydraulic system.	Contact the Maintenance Service.
	Sooted boiler.	Contact the Maintenance Service.
The boiler is smoking.	Water in the gas oil tank.	Completely drain the gas oil tank

	<p>Incorrect gas oil pressure.</p> <p>Electrodes improperly positioned.</p> <p>Fuel nozzle dirty.</p> <p>Fuel nozzle worn out.</p> <p>Heating coil blocked by soot.</p> <p>Gas oil pump dirty.</p> <p>Gas oil solenoid valve not working.</p>	<p>then, fill up with clean gas oil.</p> <p>Turn the adjusting screw until obtaining approx. 10 bar; contact the Maintenance Service.</p> <p>Adjust the difference between the electrodes; contact the Maintenance Service.</p> <p>Clean the fuel nozzle.</p> <p>Replace the fuel nozzle.</p> <p>Clean the heating coil.</p> <p>Disassemble the pump and clean the filter; contact Maintenance Service.</p> <p>Replace the solenoid valve.</p>
<p>The burner cut out during operation.</p>	<p>Gas oil tank empty.</p> <p>Water in the gas oil tank.</p> <p>Fluxostath damaged.</p> <p>Starting transformer damaged.</p> <p>Rotation of the starting electrodes.</p> <p>Gas oil nozzle dirty.</p> <p>Gas oil nozzle damaged.</p> <p>Gas oil pump damaged.</p> <p>Gas oil solenoid valve damaged.</p>	<p>Fill up the gas oil tank.</p> <p>Completely drain the gas oil tank and fill up with clean gas oil.</p> <p>Replace the fluxostath.</p> <p>Replace the transformer.</p> <p>Set the electrodes back to their proper position; contact the Maintenance Service.</p> <p>Clean the nozzle.</p> <p>Replace the nozzle.</p> <p>Replace the gas oil pump.</p> <p>Replace the gas oil solenoid valve.</p>