

# Operation Manual

# *Jaguar 6.6*



## *Operation Guide*

# PLEASE READ this manual thoroughly before you run the Jaguar.

Reading this manual should give you the confidence in operating the Jaguar correctly and efficiently. If you feel that we have missed anything, please contact Solution World of Clean on 01209 204 343.

**Important Note:** Any warranty issued with this machine is valid only in the UK.

Never forget that this is an industrial machine and you are responsible for its safe operation and the safety of others around it.

## Unpacking Equipment

Inspect to see that there is no exterior damage to packaging upon arrival. If so, please make the delivery driver/company aware and show them the specific damage.

When receiving the machine during the winter months, the pump and all solution lines are filled with an organic antifreeze mixture to protect the machine. This will need flushing out prior to use.

## Quality Control

Each system is carefully built by hand. Each and every component is thoroughly tested in our plant before, during and after full assembly. Prior to dispatch, the system is fully "wet" tested to eliminate any possible defects of any kind. We are proud to point out that your machine meets the exacting standards of CE approval.

## Specifications:

### **Vacuum Motors:**

Twin Ultra-Tech Wind Tunnel Vacuum Motors with a built-in high-efficiency cooling system. 6.6 Lamb Ametek.

Strategic external air venting allows cooler running operation.

Highly efficient long life vacuum motors.

### **Pressure Pump:**

Large commercial dual capacitor drive motor & exceptional high flow rate.

Adjustable up to **0-800** P.S.I. with a fitted gauge.

Capability of cleaning hard floors as well as carpets!

### **Tanks:**

**Solution:** 60 Litre Solution with baffled lid.

View-through design allows the operator to see water level.

The handle also acts as a hose and cord carrier.

**Vacuum:** 56 Litre Recovery with air-flow optimised, directed baffled lid.

View-through design allows you to see dirty recovery.

Flow-through non-obstructed lint filters.

Accommodates either 1 1/2", or 2" vacuum hose

### **Dimensions**

Weight: approx 42Kg. empty; balanced distribution.

Measures: 34"h x 30"l x 18" w (86cm x 66cm x 46cm)

## Vacuum Float

The vacuum float should be fitted at ALL times, failure to do so may cause water ingress of the vacuum motors and WILL invalidate your warranty.

**IMPORTANT!** The lint filter at the top of the stack pipes must be inspected and cleared of lint/fluff after every single job. This will ensure that your vacuums are working at their optimum and will prevent your vacuum motors from burning out.

## Installation of Vacuum Lid

**IMPORTANT!** The air-flow holes situated on the lid (inserted part) are to face towards the rear of the machine. The screws which are in place should help to avoid the lid being positioned incorrectly, so the screws should NEVER be removed. The consequences of the lid being placed incorrectly allows water to pass directly down the stack pipes, this WILL cause water ingress of the vacuum motors and damage them irreparably and WILL invalidate your 12 month warranty.

## Switches

Note there are 4 switches located at the bottom & front of the machine base.

- 2 x Vacuum (red)
- 1 x Main Pump (blue)
- 1x Dump Pump (green if fitted)

## Pressure Regulator (0-800 psi)

To increase flow rate/psi: Turn the regulator's adjustment knob clockwise (to the right).

To decrease flow rate/psi: Turn the regulator's adjustment knob anti-clockwise (to the left)

## Front Solution/Clean Water Tank

**CAUTION: Do not overfill, risk of damage to vac motors and invalidating the warranty is possible, the solution tank holds more fluid than the recovery tank due to vacuum tubes.**

There are two colour coded 5ft hoses within the solution tank. The blue hose with a mesh filter on the end is the water feed hose that draws water to the pump, the yellow one is the flow return hose that re-circulates the solution when there is no demand at the wand.

Always make sure there is sufficient water in the tank when you run the pump and that this filter is kept clean and clear. Avoid allowing the pump to run dry.

**CAUTION:**

**Avoid manoeuvring/lifting the machine when water is in either the solution, or waste tank. ALWAYS EMPTY the machine before travel/movement. Apart from Health and Safety issues, failure to do so may cause water to splash down into electrical components and cause a potential hazard. Damage may also occur and if so, your warranty will be invalidated.**

**It is also not advisable to move the machine up the stairs due to jarring the components. Your machine has been designed to run long hose lengths to enable work on multiple floor levels whilst leaving the machine in one position, more importantly, liability and personal health risks in terms of one's back, arms and the possibility of falling down a stairway. It is highly recommended to use additional hoses instead. Always lock the machine in position whenever not in sight of the operator or whenever there are children present.**

To empty the clean tank remove the yellow hose and put the end into a bucket and turn the pump on ( the main one) this will empty the tank. or you can use the vacuum to suck the water out.

## Rear Waste/Recovery Tank

The waste/recovery tank is designed to withstand extreme pressure that the Jaguar produces. The shape of this tank is a pivotal key to our extremely high pressure system and should not be internally modified in any way. To do so will invalidate your warranty.

The inside of the waste/recovery tank houses the two vacuum stack pipes which lead directly to the high performance vacuums. The two float chambers sit directly on top of the stack pipes. On the front of the machine there is a black waste gate valve positioned 1" from the base of the tank. The purpose is to allow you to drain the majority of the recovered water from the tank without causing dirt & debris to become lodged inside the gate valve or to re-circulate through the vacuum motors.

The drain outlet situated on the lower side of the waste tank is for completely emptying the waste tank. We strongly recommend rinsing the waste tank on completion of every job. Simply unscrew the jubilee clip and remove the rubber bung. Then tilt the machine and place a bucket under the drain outlet and rinse the inside tank walls clean. Always ensure that this bung and the associated jubilee clip is replaced and fully tightened before operating the unit.

## Pump

Your pump is rated at 0–800 psi. The longevity of the seals and plunger of the pump head, and indeed the pump head itself can be increased by following a few simple rules.

1. Never use oxidisers/solvents (World of Clean SPM) through the pump head as this can cause cavitation within the pump and cause irreparable damage.
2. The only thing that should be allowed to pass through the pump head should be fresh water, (not exceeding 60 degrees C) or World of Clean Final Phase/Crystal Rinse/M-Power/Fabric 8/Odour Neutralisers.
3. DO NOT allow the pump head to freeze.
4. Always relieve the built up pressure from the machine and the solution hoses when shutting down, by depressing the valve trigger on the wand. Failure to do so may cause excessive pressure on the pump motor and the pump may be unable to start up on the next job! This may cause a “humming sound” when you switch the pump on which may burn out the motor.

**Please note the pump manufacturer Pumptec recommends the plunger kit and seal kit are renewed every 500 running hours.**

## Pump Priming

To prime the pump and eradicate air locks, attach the solution hose to the high pressure solution outlet (13) and the male quick connect end to the female quick connect situated on top of the solution tank if fitted. If not, use a spare quick connect or an open ended hose)

Ensure that there is enough water in the solution tank and the feed hose (blue) is submerged and the filter is clean/clear. Switch on the pump motor on (12) and allow a few minutes for the water to fill the system. A change in sound will be apparent when the pump is primed and a continuous flow should be present.

## Casters & Wheels

To ensure longevity of wheels, a certain amount of care should be taken. For example, regarding the rigid 10" wheels, they are made to go forward and/or backward only, NOT from side to side. If the hub is found to be cracked or bent (particularly around the internal-axle part, the chances are that the machine was dropped on its side with undue force. The same is true with swivel casters.

Always make sure that lint and debris do not collect around axles and regularly grease them to keep them in top working order.

## Auto Dump (if fitted)

The auto dump system allows you to clean without manually emptying the machine.

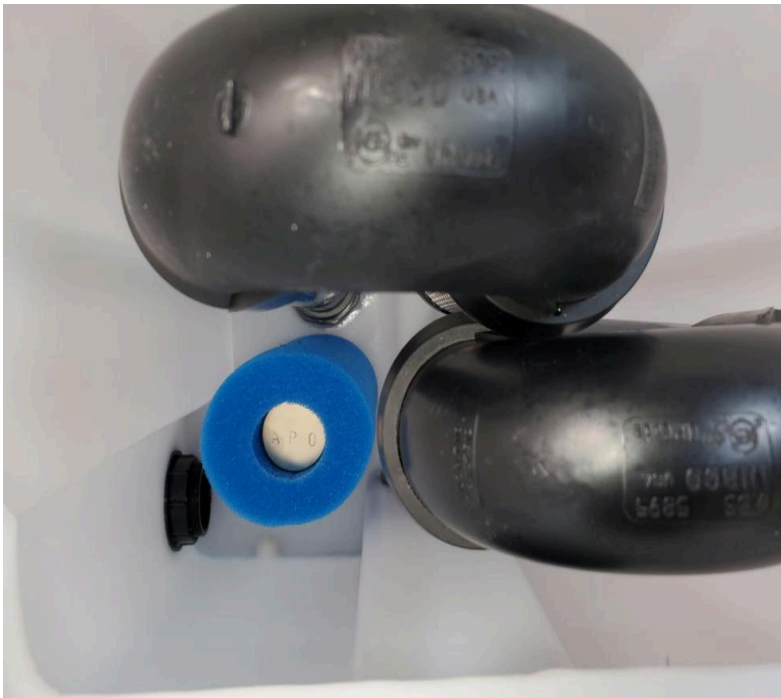
Regular checks:

- Check the blue filter in the waste tank isn't clogged and the waste tank isn't overfull.
- Always clean the blue filter after every use of the auto dump out.

To remove the filter simply pull it up. After cleaning the filter remember to always replace it again.

To prevent silt buildup within your pump, take the yellow return hose from the clean water tank and run clean water through the auto dump system until the water runs clear. This is also a good way to empty & clean the rinse tank.

When not in use ALWAYS keep the brass cap on the auto dump port on the front of the machine.



## Important Information about “Cleaning Agents”

It is vitally important that you know what the ingredients are in your solutions. NEVER use solvents or oxidisers (SPM) in your machine as these will damage your pump & pump valves almost immediately. They will also damage wand valves and regulators. (example of solvents is butyls, citrus cleaners etc).

**The use of chemicals/solutions outside of the “World of Clean” range, used through your machine can invalidate your warranty for your Jaguar. Many powdered detergents actually eat away and aggressively corrode the inside of the pump head, causing irreparable damage over a very short period of time. Solution World of Clean Ltd WILL NOT meet the cost to replace pump heads, seal kits and plunger kits damaged in this way. Warranty is based upon a return to Solution World of Clean. Any unauthorised repair/work on your machine without our written consent may invalidate your warranty.**

## Water Temperature

Limit water temperatures to 60 degree centigrade when running water through the machine pump. Temperatures higher than this may deform pump seals, valves, wand valves and disconnects etc and may actually cause internal cavitations of the pump head. They could also reduce pump and other related components’ service life, and will void warranties.

## Power Spray System

This is the blue and yellow colour coded hoses in the solution tank. The blue hose draws in the water; the yellow hose re-circulates it back into the tank.

### **Options:**

You can pull the yellow hose out to empty the water quickly from the solution tank.

You can put both hoses into a 5L pail of pre-mix and pre-spray that solution onto the carpeting using a spray hand wand. (Note: Using this procedure may, at times, make the system lose prime by pre-spray solution draining back out of hose, thus causing air lock)

**NEVER USE A VOLATILE SOLVENT!**

## Troubleshooting

### Loss of Vacuum

Take the vacuum lid off and set aside. Remove both float vacuum shut-offs and set aside. Check that fluff/lint is not present on the filters. If not, switch on both vacuums and independently check each stack pipe to ascertain that a good suction is achieved. If there is no vacuum but you hear the motor running, then it is possible that the internal hose fitting inside the machine has separated from the stack pipe or the vacuum motor itself.

1. Remove the waste tank via the 4 securing nuts from the base.
2. Inspect for unattached pipe to the underside of the stack pipe and also the vacuum motor. Reattach and reassemble the machine and test again.

### Pump Pressure Problems

If the pump is switched on and a constant flow of pressure at the wand is not achieved, it may be that the pump has been starved of water where the water has drained back out of the blue supply hose in the solution tank. This causes an air-lock. The simple solution is to ensure that the blue feed hose filter is clear of any debris and the hose is fully submerged in the solution tank. To rectify, attach an open ended male quick connect to the end of the solution hose and switch the pump on. As the pump runs, a pitch change should be heard after a while. Once this happens and a good steady flow of water is achieved, switch the pump off and remove the male quick connect and carry on as normal.

Lime scale build up may also be a factor, especially in hard water areas, simply running Solution Final Phase acidic rinse through the system helps remove any build-ups.

### Pump Motor Not Running

PLEASE NOTE that if you experience a problem with a motor or pump motor not running on a particular extension cord line (that had been running prior), ALWAYS check the outlet first. Did you trip a breaker? Is the electrical outlet worn and therefore not making contact with the machine plug end prongs?

**We strongly recommend the use of a RCD or circuit breaker with all electrical machinery**

## Vacuum Motor

It is imperative **NEVER** to allow water/foam to get into vacuum motors. Check your machine regularly for high levels of wastewater, even when using the auto-dump feature and the high waste water level shut off, as both features are NOT infallible. If the worst *should* happen, immediate remedial action should be:

- *Empty the waste/recovery tank.*
- *Allow the vacuum motors to run for approximately 15 minutes to dry out.*
- *Never spray “penetrates” or “inhibitors” into vacuum motors as they will seep through the electrical working of the motor and will damage them, thus voiding warranties.*
- *Ensure that when not in use, the lid is NOT replaced on the waste tank, thus allowing the vacuum motors to “Breathe”.*

**PLEASE NOTE: Your warranty is void if you introduce penetrates (WD40) into the airflow of your machine. By its very nature, the oil will penetrate through the motor seal/bearing and into the motor's armature (coils). This DOES cause irreparable damage and it is OBVIOUS when an operator has caused this sort of damage.**

**“DO NOT ADD WD40 OR SIMILAR PENETRATES TO THE INTAKE OF YOUR MACHINE”**

## Foaming Problems

If you are using an extremely foamy detergent, pre-spray or are cleaning a carpet that previously had been shampooed, you may find excessive foam in your vacuum tank. Foam will not activate the vacuum float valves or float switch (if fitted) and will blow through the motors and the exhaust. This should be avoided at all costs as it can cause irreparable damage to the motors.

Immediate remedial action upon drawing water/foam in through the motors is to dry-run the machine with the tank lid OFF, for at least 15 minutes. This however does not mean that the motors are out of danger of catastrophic failure. We highly recommend the use of **World of Clean Defoamer Concentrate** prior to cleaning and every time the waste tank is emptied.

## Total Amp Draw

**Generator** if desired: 5,500 *running* watt rated. (however, always check with the supplier)

## To Summarise:

### **During Carpet Cleaning:**

1. World of Clean defoamer should be introduced initially and every time the waste



