



# 500HWC Manual



Congratulations on the purchase of your new Redline 500HWC heated wash cabinet. Below are a few points of interest that will help you operate your machine and keep it operating efficiently.

1 – This unit is not made of stainless steel, which means it can and will rust. What protects this unit from rusting is the oil residue generated from cleaning your items. Over a short amount of time, the inside of the cabinet will get coated with a watery-oil-grease residue. This residue will control the cabinet from rusting. If you are not cleaning oily items inside this washer, we recommend occasionally adding a half quart of used motor oil to the water to control rust.

2 – The temperature control knob is on the right and the timer is on the left. The temperature knob reads 30-110. These degree graduations are not accurate and should not be considered. Most customers will simply turn the temperature all the way up, which will usually yield an operating temperature from 110 to 150 degrees Fahrenheit.

3 – The motor on this washer is likely to run for around 20 minutes after a cold start-up. After about 20 minutes, the spray nozzles will likely shut off. This is natural and is the result of the auto shut-off built into the motor protecting itself from overheating. Once it has cooled a bit, it will turn back on, run for a few minutes, and repeat this cycle. The rest of the washer will remain operational during these cool-down periods, which is natural.

4 – Redline recommends using ProClean as a cleaning solution for this washer. While other detergent options are available, we have found ProClean to be your best choice. DO NOT operate this machine with petroleum based solvents. This will destroy the system, as well as pose an extreme fire hazard.

5 – The greatest risk to this washer is running too low on cleaning solution. We recommend filling this unit to the point it's nearly going to overflow. Once the washer turns on, you will notice that the fluid level will drop by a couple inches. This is because the pump is filling the spray tower with fluid. If during this time you notice the machine is making a gurgling sound and the sounds emitted from the pump are not consistently the same, this tells you the pump is struggling to intake fluid and is drawing air into the system. Stop the machine, add water and cleaning agent, and continue. The machine will produce steam during operation that will also cause the fluid level to fall, so it is important you keep an eye on it, checking it periodically to make sure that it doesn't need more fluid.

6 – The 500HWC requires a 50 amp double pole breaker. We recommend using the shortest possible cord length to operate this washer as running a very long piece of electrical line to the washer will result in amp loss that can damage the machine. For this reason, we recommend using wire no smaller than the gauge found exiting the power control box. If you already have a welding machine, you can likely plug this washer directly into that same outlet with no work needed by an electrician.

7 – The grease skimmer will remove oils and grease from the water. Place a small bucket at the base of the skimmer to catch this waste. In the event the skimmer disk is not spinning, you can do one of two things to solve this problem. First, you can tighten nut in the center of the disk. Second, you can slightly bend the ears of the skimmer outward so that less clamping pressure is applied to the disk. Making this adjustment is not common, but it can happen and is a simple fix.

8 – Inside the cabinet just underneath the turntable is a metal perforated tray. Never operate this machine without the tray in place. This tray keeps items such as nuts and bolts from entering the fluid reservoir and ultimately, the pump.

9 – On the backside of the washer you'll find a motor with a metal brush that operates the turntable. We utilize a brush instead of gears, because a brush will not self-destruct in the event the item being washed manages to shift inside the washer and jams the system from continuing to rotate. As the turntable rotation brush wears down slowly over time, you may notice eventually that it does not spin with the same force as it did when it was new. When this occurs, we recommend replacing the brush. However, you can also shorten the springs that keep this brush in tension as a temporary fix until your new brush arrives.

10 – The electrical panel door is key locked. Never open this door and work on the machine's wiring with the washer still connected to electricity.

11 – At the base of the turntable inside the cabinet you'll find a large bearing with grease fitting. The turntable rotates via this bearing, and it is able to be greased. We recommend greasing this bearing with a grease gun about every 10 hours of operation. Given the nature of the machine, the washer is constantly attempting to clean its own bearing of the grease it needs to stay lubricated, so keeping this bearing lubricated is a necessity to continue operation.

12 – The door features a safety switch that shuts the machine down as soon as it is opened. Be careful never to lean on this switch with the door open as this would result in hot detergent sprayed onto you.

13 – The 500HWC has a 500 lb capacity on its turntable. If you are loading the machine to this max capacity, take care to be sure the center of gravity of your item is loaded in the center of the turntable and not to the side. Loading all of the weight at max capacity on the outer edge of the turntable could cause deformation in the turntable.

14 – Be sure the washer is on level ground and the casters locked before operating. If the washer is not on unlevel ground, this can result in the pump drawing air into the system despite that it is overflowing fluid on one side of the reservoir.

We thank you again for purchasing from Redline Engineering LLC