Atlas SWC-500 & SWC-750 Spray Wash Cabinet



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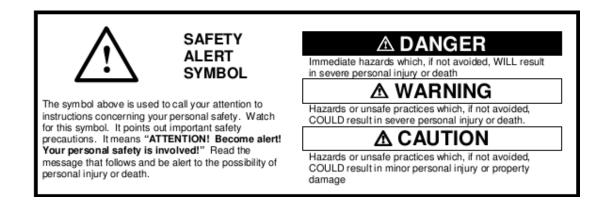


A DANGER

A person who has not read and does not understand all operating instructions is not qualified to operate this equipment.

Failure to read and understand safety instructions may result in injury or death.

Safety is a critical factor in the design of spray wash cabinets. The best program starts with a safety-conscious operator. The information highlighted in this bulletin describes operating practices for the benefit of the workers who will use our equipment in their daily jobs. Comments from users are appreciated.



Product Specifications (1)

Model	SWC-500	SWC-750
Overall Height	66"/1676mm	78"/1981mm
Inside Height	42"/1067mm	54"/1372mm
Inside Width	32"/813mm	32"/813mm
Turntable Diameter	30"/762mm	30"/762mm
Floor Space	44"×43"/1118mm×1092mm	44"×43"/1118mm×1092mm
Load Capacity	1, 000lbs/454kg	1,000lbs/454kg
Stainless Steel Nozzles	19	22
Water Temperature	135°-175°Fahrenheit	135°-175°Fahrenheit
Pump Max working pressure	28 PSI/175KPA	38 PSI/265KPA
Pump Max Flow	43GPM	68GPM
Electric Heater	6KW	6KW
Wash Cycle timer	0-60Minutes	0-60Minutes
Oil Skimmer Cycle Timer	0-15Minutes	0-15Minutes
Tank Capacity	50Gallons	53Gallons
Stainless Steel Water Pump	Standard	Standard
Turntable Friction-Drive System	Standard	Standard
Turntable Sprocket-Drive System	None	None
Removable Tank Screen	Standard	Standard
Stainless Oil Skimmer	Standard	Standard
Small Parts Basket	Standard	Standard
Removable Turntable Extension	Standard	Standard
Removable Parts Tree	Standard	Standard
Heavy Duty Caster	Standard	Standard
Steel Cabinet	Yes	Yes
Shipping Weight	730lb/330kg	930lb/420kg
Shipping Volume	2.3 M ³	2.7M ³
Packaging	Steel Pallet and Carton	Steel Pallet and Carton
Motor	1.5HP, 220V AC, 1PH 60HZ	3HP, 220V AC, 1PH 60HZ
Power Requirement	220V SINGLE PHASE 60HZ	220V SINGLE PHASE 60HZ

Product Specifications (2)

Model	SWC-500SC	SWC-750SC
Overall Height	66"/1676mm	78"/1981mm
Inside Height	42"/1067mm	54"/1372mm
Inside Width	32"/813mm	32"/813mm
Turntable Diameter	30″/762mm	30"/762mm
Floor Space	44"×43"/1118mm×1092mm	44"×43"/1118mm×1092mm
Load Capacity	1,000lbs/454kg	1,000lbs/454kg
Stainless Steel Nozzles	19	22
Water Temperature	135°-175°Fahrenheit	135°-175°Fahrenheit
Pump Max working pressure	28 PSI/175KPA	38 PSI/265KPA
Pump Max Flow	43GPM	68GPM
Electric Heater	6KW	6KW
Wash Cycle timer	0-60Minutes	0-60Minutes
Oil Skimmer Cycle Timer	0-15Minutes	0-15Minutes
Tank Capacity	50Gallons	53Gallons
Stainless Steel Water Pump	Standard	Standard
Turntable Friction-Drive System	Standard	Standard
Turntable Sprocket-Drive System	None	None
Removable Tank Screen	Standard	Standard
Stainless Oil Skimmer	Standard	Standard
Small Parts Basket	Standard	Standard
Removable Turntable Extension	Standard	Standard
Removable Parts Tree	Standard	Standard
Heavy Duty Caster	Standard	Standard
Steel Cabinet	Yes	Yes
Shipping Weight	730lb/330kg	930lb/420kg
Shipping Volume	2.3 M ³	2.7M ³
Packaging	Steel Pallet and Carton	Steel Pallet and Carton
Motor	1.5HP, 220V AC, 1PH 60HZ	3HP, 220V AC, 1PH 60HZ
Power Requirement	220V SINGLE PHASE 60HZ	220V SINGLE PHASE 60HZ

Introduction

The spray wash cabinet is designed to clean parts with a re-circulated detergent and water solution. The spray wash cabinet cleans with a combination of temperature, pressure, and the chemical action of the detergent. The spray wash cabinet includes an oil skimmer to prolong the life of the cleaning solution. The simple controls and operation are Designed to make the unit easy to operate.

Installation

\Lambda DANGER

- High Voltage a certified electrician should do all electrical work.
- Always disconnect power when opening any electrical box.

▲ WARNING

- Vibration in shipping may have loosened wire connections. Before connecting power, your electrician should check all connections.
- Have your electrician check for proper rotation on all motors

▲ CAUTION

- Do not fill tank until you are ready for start-up.
- Do not turn heating elements on until tank is filled.

Upon receiving your spray wash cabinet inspect for an visible damage from shipping. If any damage is found, make notation on your bill of lading and contact your freight carrier. Follow your freight carrier's procedure for handling damage.

If no damage is found, remove all packaging material from the machine being careful not to damage the casters on the unit.

Open the door to the unit and unpack all parts and packing materials inside.

LOCATION: When choosing a location for your spray wash cabinet, consider the following factors:

- The unit will generate steam. Make sure steam will have no adverse affects in the area surrounding the machine.
- Everyday use will result in liquid Spilling on the floor around the machine. Consider the use of traction mats and avoid placing the machine in high traffic areas.
- Allow access for service and utility connections.
- Place on a level site.

ELECTRICAL: All electrical requirements are listed on the identification plate on the machine. The wiring diagram is inside the control box. Have your electrician install all suitable wiring and breaker/disconnect box necessary. Do not modify power cord installed on the unit. Once power is installed have your electrician check motors for proper rotation but do not turn on heating elements at this time.

DRAIN CONNECTION: A 2" drain is located on the unit.

Make sure you have ready access to a water source. You will be adding water to the tank on a daily basis.

Detergent Selection

A CAUTION

Using the correct detergent is critical to the performance and longevity of your parts washer.

The manufacturer does not warranty this spray wash cabinet against rust. Rust will occur if the proper detergent is not used, if start-up procedure is not followed, or if your machine is not used on a regular basis. If not regularly used oil should be used on the inside of the machine. Rust can also occur if you use D.I.water for rinsing. A detergent formulated for mild steel Meeting the following criteria should be met:

- The detergent must have rust inhibiting agents.
- The detergent should be strong enough to remove the contaminants, but not so strong that it attacks the metal substrate.
- The detergent should only leave an acceptable amount of residue on the parts. For new parts, you may need a detergent that is "free rinsing".
- For use in spray wash cabinet, the detergent must be "low foaming".

The manufacturer offers a line of detergents developed for use in spray wash cabinets. For information contact our sales department. If the parts are critical, it is the customer's responsibility to perform any metallurgical tests.

Operation

The controls for the spray cabinet are as follows:

- CIRCUIT BREAKERS: These are located on the back of the unit inside the circuit box. The circuit breakers are used to power on/off the machine.
- CYCLE TIMER: located on the side of The cabinet above the door latch. Used To control the wash cycle.
- OIL SKIMMER: Controlled by a toggle switch located on junction box behind the skimmer wheel.
- THERMOSTAT: Located inside the back cover of the machine. Used to control the water temperature in the tank. This should be set to a temperature of 140-160 degrees F.
- **SAFETY SWITCH:** Prevents pump From operating when the door is open.

A WARNING

Do not use the safety switch to purposely stop the wash cycle.

Check water level before starting the machine. The ideal water depth in the holding tank is 8". Water should be even or just above the filter basket. Water level should be checked daily.

To heat the solution in the tank, turn the heat breaker to the on position. Allow at least 1 hour for the solution to reach 140-160 degrees F before first wash cycle. During daily operation the heating elements work automatically as needed.

When solution has reached proper temperature, turn all other breakers to the on position. Place parts on the wash rack making sure parts are placed to allow rotation of the wash rack. Small parts can be placed in wash baskets provided with the machine. Close and latch the door and set the timer to start the wash cycle. Generally, most wash cycles should be 15-20 minutes.

A WARNING

- Make sure door is latched before starting the wash cycle.
- Wear proper protective equipment when removing parts from wash cabinet.

The oil skimmer is not designed for constant use. When floating oil is 1/4"to 1/2" deep, or When oil starts to impede cleaning, operate the skimmer. Before operating oil skimmer place a collection container at the oil Skimmer to collect material skimmed. Follow all regulations for disposal of skimmed material.

At the end of daily operations turn off all power to the spray wash cabinet.

🕭 DANGER

Do not use the spray wash cabinet if the door safety switch does not stop the spray pump when the door is open.

Initial Start-Up Procedure

▲ CAUTION

- Do not start this procedure until you have read this manual
- Do not fill the tank or start this procedure unless you have the time needed (about 2 hours) to heat the water, add detergent, and run the wash cycle for at least 1 hour.
- Before turning on electrical power, make sure heat and wash timers are off.
- Make sure start up procedure is carefully followed.

For first time use , follow the following procedure:

- 1. Make sure electrical power to the Machine is off.
- 2. Verify that your electrician has done all necessary work.
- 3. Verify heat and wash breakers are In the off position.
- 4. Fill the tank with water. Add water until the water level is just above the removable filter basket.
- 5. Verify thermostat is set between 140-160 degrees F.
- 6. Turn on electrical power to the machine.
- 7. Turn the heater breaker to the on position.
- When the water temperature has reached the proper temperature, add detergent following the detergent manufacture's directions. Pour the detergent directly into the Filter basket.
- Close and latch the door. Turn all other breakers to the on position. Set the wash timer to run a 15minute wash cycle.
- During the initial wash cycle, walk around the machine and check for leaks.
- 11. At the end of wash cycle, open the door.
- 12. If water was leaking around the door, Adjust the direction of the spray nozzles to spray away from the door.

- 13. Run the spray wash cabinet for at least 1-hour of wash cycles for the next two days.
- Adjust oil skimmer flanges to make light contact with the skimmer wheel. Use care to not put excess strain on the oil skimmer motor.

Your machine is now ready for daily operation. The more wash cycles you run, the more the cabinet is coated with rust inhibitors.

If you have any questions about start up or installation of your machine contact your provider.

Solution Disposal

Protect your environment an protect your business from fines by handling your cleaning solution according to federal, state, and local codes. According to federal regulations, which states have to adopt as <u>minimum</u> standards, the dirty cleaning solution in a spray wash cabinet is generally not "hazardous waste".

The two characteristics that you have to be most concerned about are corrosivity and Ep toxicity. Ask your detergent supplier is the PH of your solution is greater than 12.5 and if so, how it can be neutralized. To check for Ep toxicity, you would need to have a sample tested by a laboratory.

Assuming that your solution is not hazardous, or that with minor treatment (e.g. adding acid) the solution can be made nonhazardours, the EPA does not require special storage, documentation, transportation, and processing. Since your solution will have oils, however, you will probably not be able to dump the solution in the sewage line (call your sewage treatment facility) and you certainly can't dump the solution on the ground or in a storm drain. You can separate the oil and solid contaminants from the solution so that the cleaning solution can last for an indefinite period.

Maintenance

Do not allow the sludge accumulation in the tank to exceed a 1" depth. Otherwise, the sludge build-up could damage the heating element(s) and pump. Depending on the application, some businesses have to clean out the sludge weekly, while others can go months before cleaning out the tank. Since you can't see the sludge, clean out the tank within the first week of operation and develop an appropriate clean out schedule. The following procedure should be followed for sludge removal:

- Disconnect all power to the machine or make sure all breakers are in the off position.
- Remove the wash rack and filter basket from the machine.
- Using the drain, remove solution from the tank. You can save the solution for reuse.
- Scrape out the sludge through the filter basket opening being careful to not hit the heating element.
- Close the drain and install the filter Basket and wash rack.
- Fill tank with solution to proper level.

If spray nozzles become clogged you may need to flush the spray tubes. Remove all pipe caps and bottom spray nozzles and run a maximum of 60 second wash cycle.

A CAUTION

When flushing the spray tubes, running a wash cycle longer than 60 seconds could damage the pump motor.

Follow daily and monthly maintenance guidelines included in this manual.

Warranty

Limited Warranty

This warranty covers any defects in manufacturing on your spray wash cabinet.

This warranty lasts one (1) year from the date of purchase. Coverage terminates if you sell or otherwise transfer the spray wash cabinet during the period of the warranty.

Rust, or any problem that is caused by abuse, misuse, or an act of God is not covered in this warranty. The manufacturer should not be liable in either tort or contract for any loss or damage, direct, indirect, special, consequential, or incidental, arising out of the use or inability to use this product. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

Maintenance Checklist

DAILY

- □ Check water level. Fill to just above the filter basket.
- □ Clean any clogged spray nozzles.
- Clean up any spilled solution in surrounding area.
- □ Clean out removable filter basket.
- Adjust detergent concentration as needed.
- □ Run oil skimmer as needed
- □ Clean sludge from tank as needed

MONTHLY

- Check hoses for leaks or visible damage. Replace if necessary.
- Make sure all components are in good operating condition.
- □ Inspect all electrical wiring.
- □ Inspect pump for leaks.
- Inspect wash tray and friction drive wheel. Replace if necessary.
- □ Remove sludge from holding tank.

▲ DANGER

If any component is found to be damaged or defective, <u>DO NOT USE</u> until needed repairs is made.

Notes:

Troubleshooting

Problem	Probable Cause	Possible Remedy
Unit not working	Check fuse or circuit breaker	Replace blown fuse or reset circuit
	 Check for correct voltage 	breaker
	 Wiring connections 	 Supply correct voltage to unit
		 Repair and insulate all connections
	 Pump breaker off 	 Turn on breaker for pump
	 Broken wash timer 	Replace timer
Pump motor not operating	 Broken door safety switch 	Replace switch
	 Wiring connections 	 Repair and insulate connections
	 Bad motor starter 	 Consult electrician
	 Pump is broken 	Replace pump
	 Water level is too low 	 Fill water to proper level
	 Pump is rotating backwards 	 Consult an electrician
Pump motor operates but	 Pump is broken 	Replace pump
has little or no pressure	 Solution is foaming 	• see below
	 Spray manifolds or filters are 	 ● clean out
	clogged	
Solution won't get hot	 Thermostat not set an correct 	 Adjust thermostat
	temperature	
	 Broken heating element 	 Replace heating element
	 Broken thermostat 	 Replace thermostat
	Wiring connections	 Repair and insulate connections
Poor cleaning	 Incorrect detergent 	 Use detergent designed for spray
		wash cabinet.
	 Low detergent concentration 	 Adjust detergent level
	 Hard water 	 Use a water softener
	 Clogged nozzles 	 Clean spray nozzles
	 Solution is too dirty 	 Run oil skimmer or change solution
	 Incorrect solution temperature 	 Adjust thermostat
	Low pump output	See below
Wash table not turning	• Pressure spring missing or broken	 Replace spring
	 Worn friction drive wheel 	 Replace friction drive wheel
	 Wiring connections 	 Repair and insulate connections
	 Motor windings burned out 	Replace motor
Rust inside cabinet	 Wrong detergent 	Remove rust use detergent with
		rust inhibitors
	• Did not follow start up procedure	• Remove rust, and change solution
		using twice the normal detergent
		level.
	 Machine used too infrequently 	 Remove rust, oil the inside of the cabinet.
	Wrong detergent	Use low-foam detergent
	 Started wash cycle when solution 	Allow proper time for solution to
Solution is foaming	was cold.	heat
	Concentration too low	Adjust detergent concentration
		Add de-foamer
		Add de-toamer

