

OPERATION MANUAL
Opti-Mist™ P

3 Gallon Sprayer



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IMPORTANT SAFETY INSTRUCTIONS

WARNING: Failure to observe these instructions can cause personal injury to machine operator or bystanders.



WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

INTENDED USE

This machine is intended for commercial use, spraying chemical. NSS does not recommend using this machine for any other purpose.

FOR SAFETY:

- **ALWAYS** read and understand all instructions before operating or servicing machine.
- **ALWAYS** use this machine **ONLY** as described in this manual.
- **NEVER** attempt to operate this machine unless you have been trained in its operation.
- **NEVER** allow an untrained person to operate this machine.
- **NEVER** attempt to operate this machine if it is not working properly or has been damaged in any manner.
- **ALWAYS** wear eye protection, gloves, long sleeve shirt, long pants, and full foot protection when spraying.
- **NEVER** drop or insert any object into any machine opening.
- **NEVER** allow this machine to be used as a toy. Close attention is necessary when used by or near children.
- **ALWAYS** wear clean tennis shoes or “non-slip” shoes. Leather soled shoes will become extremely slippery when wet.
- **ALWAYS** empty the tank after use.
- **NEVER** allow this machine to freeze.
- **NEVER** expose the machine to rain, snow, or extreme temperatures.
- **NEVER** leave a pressurized machine in the (hot) sun. Heat can cause a pressure build-up resulting in possible explosion.
- **NEVER** store any items on this machine.
- **ALWAYS** store this machine indoors in a dry, cool area.

NSS Chemical Use Disclaimer



WARNING: Chemical use hazard.

Each chemical, such as a disinfectant, has a unique set of hazards and needs to be handled properly to ensure worker safety.

Read and understand the chemical product's SDS and label prior to use.

Be aware of first aid procedures related to the product in use.

It is a violation of Federal law to use a chemical in a manner inconsistent with its label.

If using a disinfectant, be sure to follow the chemical manufacturer's instructions regarding dilution, coverage and dwell time.

Use personal protective equipment as detailed by the chemical product's SDS. Excessive exposure to disinfectants and other types of chemicals might be harmful to one's health.

For use with non-flammable, non-combustible and non-volatile fluids only. Never spray a flammable chemical (flash point less than 60°C).

Ensure the area being sprayed has proper ventilation.

To dispose of chemical products, refer to product labels.

ALL REPAIR SERVICE MUST BE PERFORMED BY AN NSS AUTHORIZED DISTRIBUTOR / SERVICE STATION USING ONLY NSS ORIGINAL EQUIPMENT PARTS.

SAVE THESE INSTRUCTIONS



MACHINE INSPECTION

- Now that the machine is unpacked remember to recycle all packing materials.
- Inspect the machine for damage or missing components. If damage is found, contact the local freight company to file a freight claim.

MACHINE COMPONENTS

Solution Tank

The solution tank has a capacity of **3 gal (11.4 L)**.

- The amount of water in the tank is measured on the side of the tank. The solution tank is emptied by removing the top cap and dumping out the contents. Always dispose of the contents in accordance to local government regulations.

Pump Assembly

The pump assembly screws onto the top of the solution tank.

Suction Line/Filter

Inside the solution tank at the bottom end of the suction line is a small filter to help prevent clogging while spraying.

Pressure Relief Valve

Pull the valve out to release the pressure stored in the solution tank.



Carrying Handle

There is a carrying handle shipped loose with this machine. Install the carrying handle onto the solution tank.



Spraying Wand Assembly

The spraying wand assembly includes a shut-off valve and hose, wand assembly, and spray nozzle.

Shut-off Valve



Spray Nozzle



Wand Assembly



PREPARING THE MACHINE

Preparing the Solution Tank:

- Unscrew (turn counterclockwise) the pump assembly from the solution tank.
- Fill solution tank to the desired level.
- Add chemical following the directions provided on the chemical bottle label.
- The solution tank will hold 3 gallons (11.4 liters).
- **ALWAYS** follow the chemical manufacturer's instructions printed on their product's label.
- Re-install the pump assembly by turning clockwise onto the solution tank.
- Push pump handle down and turn counterclockwise 1/4 turn to release it.

Installing the Spraying Wand Assembly:

- Connect the wand assembly to the shut-off valve.



- Assemble the spray tip to the desired configuration.



- Connect the spray nozzle to the wand assembly.



- Tighten all connections to prevent leaks.

Operating the Machine

Priming the pump:

- Pull up and push down on the pump handle until resistance is felt.
- Press down handle on shut-off valve to spray solution tank contents.
- Re-pump as required to maintain the desired spray pressure.
- To release the pressure inside the solution tank, pull out the pressure relief valve. Hold out until the air escaping the solution tank is finished.

MACHINE MAINTENANCE

Routine maintenance is critical to ensure proper machine operation and cleaning performance. Perform all maintenance procedures as follows.

Daily Maintenance

Solution Tank

- Empty and clean the solution tank after use.
- Inspect all connections. Tighten as required.

Weekly Maintenance (20 hours)

- Verify all daily maintenance has been performed.

- Inspect the hose for cracks, softness, or brittleness. Replace if any is found.
- Inspect solution tank for any signs of cracks or deterioration. A machine with signs of cracks or deterioration should not be used as it could burst under pressure. **NEVER** attempt to patch any leaks.
- Test shut-off valve. Check for clogging or leaks.
- Check spray nozzle for clogging or leaks.

Machine Storage

- Make sure all pressure is released from the solution tank.
- Remove the pump assembly and store the solution tank upside down.
- The machine should be stored out of direct sunlight in a warm, dry place.
- If exposed to freezing temperatures, make sure to drain all liquid from the solution tank, pump, hose, and spraying wand assembly.
- Lock the shut-off valve in the "open" position.
- Periodically oil the pump assembly by dropping 10-12 drops of light weight oil down the pump rod through the opening in the cover

TROUBLE SHOOTING

<u>PROBLEM</u>	<u>CAUSE</u>	<u>SOLUTION</u>
Shut-off leaks.	The connection(s) is loose. Shut-off is worn or damaged.	Tighten (all) connections. Repair or replace the shut-off valve.
Wand assembly leaks.	Connection(s) is loose. O-ring and/or gasket is worn or damaged.	Tighten connection(s). Replace the O-ring and/or gasket.
Nozzle assembly leaks.	Connection(s) is loose. O-ring and/or gasket is worn or damaged.	Tighten connection(s). Replace the O-ring and/or gasket.
Leak between the pump assembly and the solution tank.	Pump is loose O-ring is worn or damaged.	Tighten the pump. Replace the pressure chamber O-ring.
Hose is leaking at the solution tank outlet.	Hose clamp is loose.	Tighten the hose clamp.
Hose is leaking at the shut-off.	Connection is loose. O-ring and/or gasket is worn or damaged.	Tighten the retaining nut. Replace the O-ring and/or gasket.

NOTE: If any problems remain after taking the above steps, contact your local authorized distributor / service station for further evaluation and repair.

REPLACEMENT PARTS

<u>PART NO.</u>	<u>DESCRIPTION</u>
4994211	Spray Nozzle Replacement
4994221	Shut-off Replacement
4994231	Repair Parts Kit – Shut-off
4994241	Wand Assembly Replacement
4994251	Repair Parts Kit – O-rings



4994231



4994251

ALWAYS USE GENUINE NSS REPLACEMENT PARTS



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