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# USER MANUAL

**MODEL NUMBER:  
SP100  
and related units**

**2.6 Gallon Dual-Power Spray Unit**

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**English (Original Instructions)**

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## READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT



# WARNING



### Read this manual completely and understand the machine before operating or servicing it.

- Read all instructions before installing or operating unit.
- Always wear appropriate personal protective equipment (PPE) when operating or servicing unit.
- Always follow all chemical safety precautions and handling instructions provided by the chemical manufacturer and Safety Data Sheet (SDS).
- If this unit is modified or serviced with parts not listed in this manual, the unit may not operate correctly.
- Never point the discharge wand at yourself, another person, or any object you do not want covered in chemical.
- Never leave unit unattended while pressurized.
- Always depressurize unit before attempting to remove the pump assembly.
- Always depressurize unit after use (as described in the After Use Instructions). Always store unit depressurized.
- Do not pressurize unit by any means other than the built-in pump assembly.
- Do not modify or remove pressure relief valve. Do not use unit if pressure relief valve is not operational.
- Always flush the unit with fresh water when switching from an alkaline to an acid or an acid to an alkaline.
- Always carry unit by the carrying handle. Never lift or carry the unit by the pump handle or the wand.
- Never use unit with hydrocarbons or flammable products.
- Do not exceed a fluid temperature of 100°F (37.8°C).

### PROTECT THE ENVIRONMENT

Please dispose of packaging materials, old machine components, and hazardous fluids in an environmentally safe way according to local waste disposal regulations.



Always remember to recycle.

\*Specifications and parts are subject to change without notice.

### REQUIREMENTS

Compressed air requirements	40 psi (2.8 bar) with 2-5 cfm (56.6-141.6 l/min)
Liquid temperature range	40-100°F (4.4-37.8°C)
Chemical compatibility	Chemical products used with this equipment must be formulated for this type of application and compatible with unit materials and pump seals. For more information on chemical compatibility, consult the manufacturer or SDS for your product or contact our customer service department.

### SPECIFICATIONS

Power type	Compressed air or manual
Chemical pickup type	Draws from pre-mixed solution
Number of products unit can draw from	One product
Operating Capacity	2.6 gallons (10 liters)
Discharge line length/diameter	6 ft. (1.8 m) hose, with 1/4 in. (6.4 mm) inside diameter
Discharge wand/tip type	Polypropylene trigger handle with 40° fan tip
Spray output distance	1-4 ft. (0.3-1.2 m)
Spray output volume	3 gal/min (11.4 l/min)
Flow rate*	0.3 gal/min (1.14 l/min)
Pump seals	Viton

\*Dilution rates and flow rates given are based on chemical with viscosity of water and factory air pressure settings.

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### Operation Instructions:

1. Ensure all air pressure is released from unit by activating the pressure relief valve.
2. Securely hold the unit and unscrew the pump assembly from the tank in a counter-clockwise motion.
3. Follow all instructions from chemical manufacturer. Fill tank  $\frac{3}{4}$  of the way with pre-mixed solution.  
**Note:** Do not overfill tank with solution.
4. Securely hold the tank and screw the pump assembly back on in a clockwise motion.
5. For use with compressed air operation: With the discharge valve in the closed position, plug an airline into the air fitting. The pressure is regulated to 40 psi (2.8 bar) with the pressure regulator.  
**Note:** The pressure relief valve will leak if the air pressure is too high. Do not overfill tank with air.
6. For use with manual operation: Pressurize the tank by pumping until it reaches desired pressure, or until air pressure gauge reads 25 psi (1.7 bar).
7. Point the wand assembly at the area you wish to spray and squeeze the trigger handle to discharge solution. Release trigger handle to stop dispensing.

### After Use Instructions:

1. Disconnect the airline from the air fitting. Release air pressure from unit after each use by activating the pressure relief valve.
2. Flush the unit with fresh water. It is recommended to always empty out remaining solution and run fresh water through the unit to rinse all parts thoroughly after each use and before storage.

### Maintenance Instructions:

**Warning:** Always depressurize unit before performing maintenance.

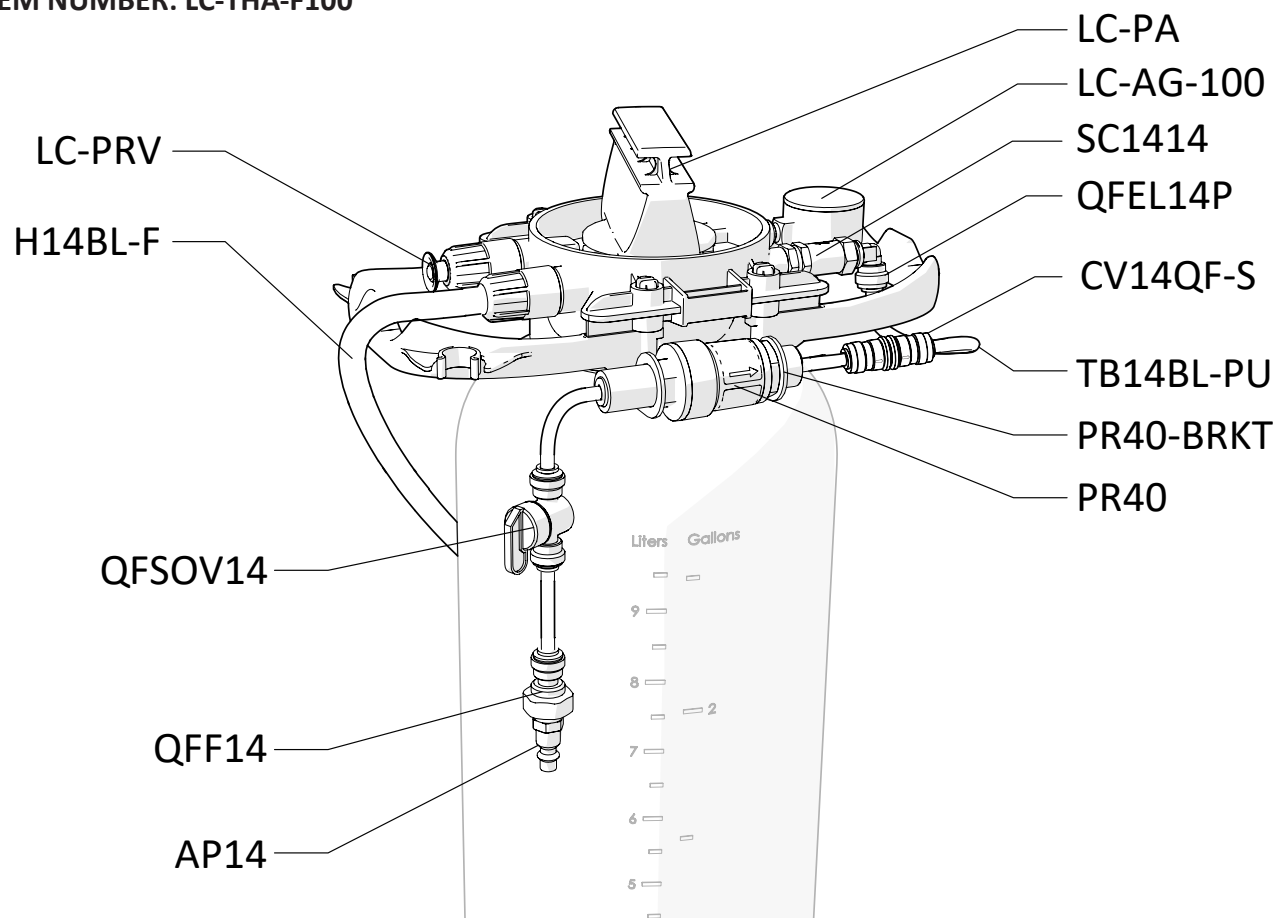
To keep your unit operating properly, periodically perform the following maintenance procedures:

- Check the pump assembly for wear and leaks.
- Check the suction tube and screen for debris and clean as needed.
- If using the manual pump, periodically lubricate the pump seal with a food safe lubricants. To lubricate the pump seal, raise pump handle and apply 5 to 10 drops of food safe lubricant between pump and pump sleeve.

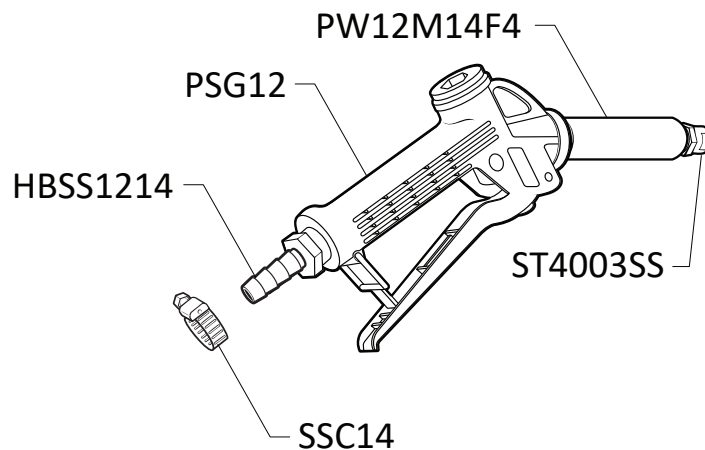
**Note:** NEVER USE LUBRICANTS SUCH AS WD40.

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### AIR DRIVEN ASSEMBLY ITEM NUMBER: LC-THA-F100



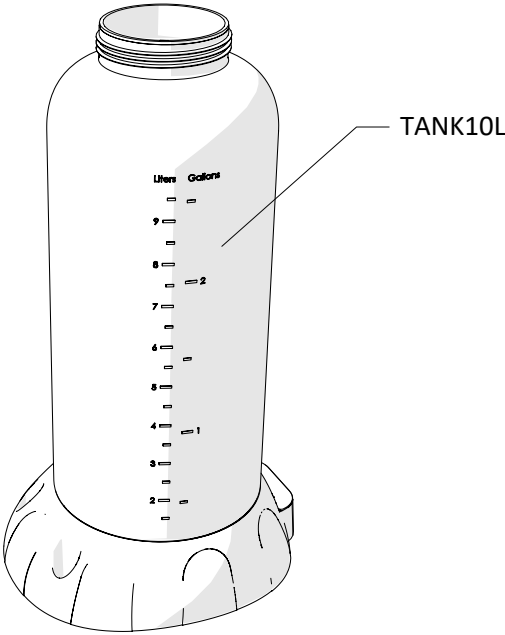
### WAND ASSEMBLY ITEM NUMBERS: PSGA144-ST



READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

TANK

ITEM NUMBER: TANK10L



ITEM NUMBER	DESCRIPTION
AP14	AIR FITTING - 1/4 IN MPT QUICK DISCONNECT HOSE COUPLING PLUG - NICKEL-PLATED BRASS
CV14QF-S	1/4 TUBE X 1/4 TUBE CHK QUICK FIT-SMALL
EC14	EAR CLAMP - OETIKER - STAINLESS STEEL - FOR 1/4IN HOSE
H14BL-F	1/4 IN ID BLUE HOSE - HYBRID TPE - AVAILABLE PER FT
HBSS1214	STAINLESS STEEL - 1/2IN MPT X 1/4IN BARB
PR40	PRESSURE REDUCING VALVE-40 PSI
PR40-BRKT	BRACKET FOR PR40
PSG12	POLY SPRAY GUN WITH 2X 1/2IN STRAIGHT THREAD - GRAY HANDLE WITH RED CLIP - 316SS INTERNAL SPRING - INCLUDES 2X O-RING
PSGA144-ST	POLY SPRAY GUN ASSEMBLY FOR 1/4IN HOSE - 4IN POLYPROPYLENE WAND - BLACK - ST4003SS SPRAY TIP - INCLUDES SS HOSE BARB AND SCREW BAND CLAMP

ITEM NUMBER	DESCRIPTION
PW12M14F4	1/2IN NPT AND 1/4IN FNPT WAND - BLACK UHMW - 4IN LONG
QFEL14P	FIXED ELBOW 1/4in TUBE X 1/4in MPT - POLYPROPYLENE
QFF14	FEMALE ADAPTER 1/4in TUBE X 1/4in NPTF POLYPROPYLENE
QFSOV14	SHUT OFF VALVE 1/4in TUBE - POLYPROPYLENE
S10112	SCREW - #10 X 1 1/2IN - STAINLESS STEEL - ROUND HEAD PHILLIPS
SC1414	STAINLESS PIPE COUPLER-1/4IN X 1/4IN
SSC14	SCREW BAND CLAMP - STAINLESS STEEL - FOR 1/4IN HOSE
ST4003SS	SPRAY TIP - 40 DEGREE FAN - 0.3 GPM -STAINLESS STEEL - 1/4 IN MPT
TANK10L	10 LITER TANK
TB14BL-PU	1/4 IN OD BLUE TUBE - POLYURETHANE - AVAILABLE PER FT