
Series 9900



Compact Cleaning System

THANK YOU FOR CHOOSING OUR PRODUCTS

Please use this equipment carefully and observe all warnings and cautions.

WEAR

protective clothing and eyewear when working in the vicinity of chemicals or other materials, when filling or emptying equipment or changing metering tips.

ALWAYS

re-assemble equipment according to instruction procedures. Be sure all components are firmly screwed or latched into position.

direct discharge away from you or other persons or into approved containers.

exercise CAUTION. Dispense cleaners and chemicals in accordance with manufacturer's instructions.

observe safety and handling instructions of the chemical manufacturers.

CLEAN

equipment after each use to maintain proper operation.

Overview

The CCS 9900 is a battery powered, portable, self-contained unit designed to make daily maintenance of your facility easier. This unit includes the following features:



Packing List

- Unit with integral 8 gallon water reservoir
- Battery & charger (installed)
- Spray nozzle
- 15 ft. discharge hose (installed)
- Metering tip kit
- Instruction manual
- Chemical feed line assemblies (installed)

Initial Set-up

1. Remove tubing from checkvalve/ metering tip holder.
2. Push the selected metering tip into metering tip holder.
3. Replace tubing.

Chemical "A"

Chemical "B"

metering tip

check valve/metering tip holder



Metering Tip Selection

The final concentration of the dispensed solution is related to both the size of the metering tip opening, and the viscosity of the liquid being siphoned.

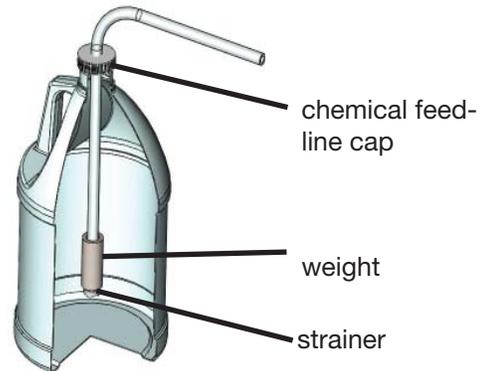
For water-thin products, the chart can be used as a guideline. Because dilution can vary with water temperature and pressure, and if the product is noticeably thicker than water, **dilution rates shown should be viewed as approximate.**

Orifice Size	Tip Color	Average Dilution Ratio
	no tip	4:1
0.128	grey	4.25:1
0.098	black	4.5:1
0.070	beige	4.5:1
0.052	red	5:1
0.043	white	6:1
0.040	blue	7:1
0.035	tan	8:1
0.028	green	10:1
0.025	orange	12:1
0.023	brown	16:1
0.020	yellow	20:1
0.018	aqua	24:1
0.014	purple	32:1
0.010	pink	64:1

Initial Setup (cont.)

4. The spray attachment is in the accessory box. Attach it to the discharge hose.
5. Remove the black cap from the water fill port (it rotates COUNTER CLOCKWISE to open). Fill the tank with cool, clear tap water.
6. To connect the chemicals, remove the shipping cap and the seal on your chemical bottle and discard. Place the strainer and weight into chemical bottle and screw the chemical feedline cap onto bottle.

water
fill cap



Prime the Unit

1. Set the chemical select valve to either of the products (A, B, or C).
2. Turn the power switch on. The pump should run for a short time, then stop. (The pump will run until the discharge pressure reaches the factory set point. The pump will then turn off until the trigger on the spray attachment is activated.)
3. Direct the spray nozzle into a drain or other container and pull the trigger.
4. Run until a steady spray pattern is established, without air in the water stream.
5. Release the trigger. The pump should stop almost immediately. If it does not, operate the unit longer as it is not fully primed.
6. Turn the selector to the other product and repeat.

select valve



Normal Operation

1. The power switch is lighted when it is in the “ON” position.
2. The pump will run when the trigger on the spray attachment is pulled and stop when it is released.
3. Run the unit approximately 10 seconds to flush prior chemical from hose.

Out of water/chemical indication:

When the system runs out of either water or chemical, air will enter the water stream and it will become “rough.” The pump may also continue to run when the trigger is released. Turn off the power immediately, fill the water reservoir and/or replace the empty product container, and repeat the priming operation.

CAUTION: Continuous cycling of the pump (continuous, rapid on/off cycles) indicates a problem with the unit. Have the unit serviced immediately.

CAUTION: Do not operate unit while the charger is plugged into an electrical outlet. If unit does not operate unless plugged in, check that the battery terminals are connected (see initial set up procedure on page 4).

Maintenance

Daily:

1. When finished using the pump for the day, run the pump two minutes with the select valve and nozzle in rinse position, to purge chemical from the unit. See Fig. G.
2. Turn the unit off with the switch. Relieve the pressure in the discharge hose by pulling the trigger on the spray attachment after the switch has been turned off. A small amount of water will discharge.
3. Check the unit for any damage or leakage.
4. If the unit is going to be stored where it can freeze, drain the water reservoir and run the pump until there is no more water in the system. Allow the system to thaw before you start the pump.
5. Plug the unit into a 120 Volt outlet to recharge the battery. The indicator light on the charger will be red while the battery is charging, and green when the battery is fully charged. Leave the charger plugged in during long term storage to maintain the battery at peak capacity. Note: It is not necessary to fully discharge the battery before recharging.

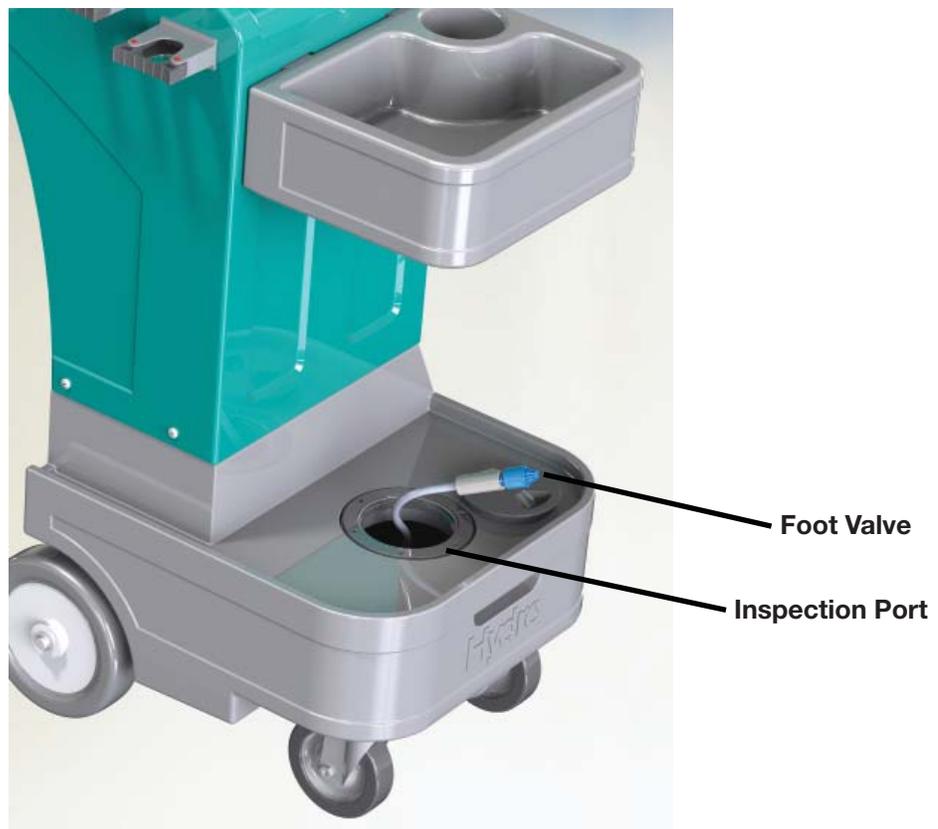
NOTE: Failure to follow this procedure after use will void the warranty on the pump.

Troubleshooting

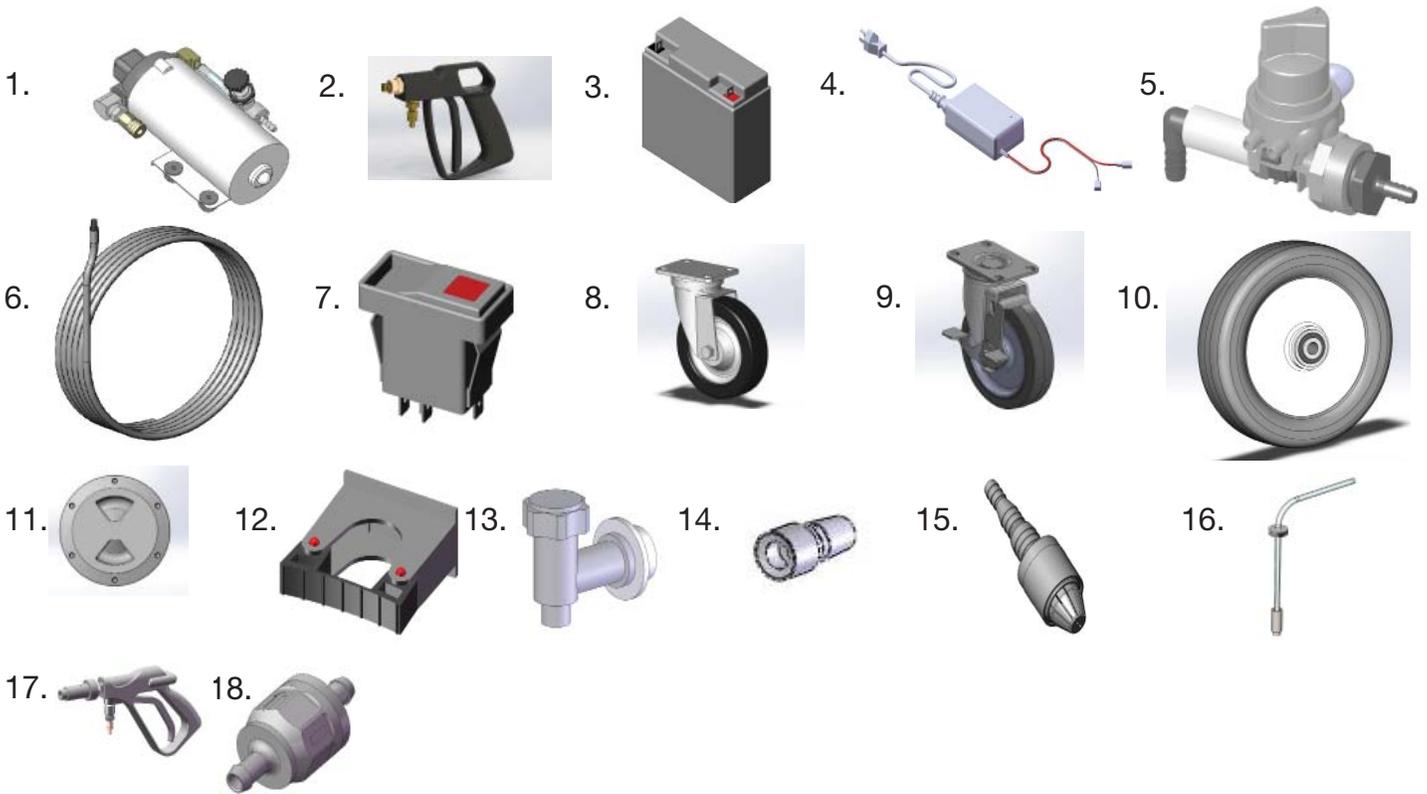
1. **The spray is weak or there is no spray.** The pump does not operate at full flow if there is air in the system. Air can enter the system from several sources:
 - a. Out of water - fill the water reservoir and prime the system.
 - b. Out of chemical - replace the chemical container and prime the system.
 - c. Foot valve is clogged - clean or replace the foot valve in the reservoir. To access the foot valve, remove inspection port (See picture below). Remove pick up assembly from port (see picture below). The foot valve is mounted on the end of the water pick-up assembly, and is designed to be removed without tools.
 - d. Leak in one of the fittings. Remove the back panel and find the source of bubbles. Correct the leak.
 - e. Battery is low, if necessary, recharge.
2. **Pump pulses.** There is a pressure switch in the pump. If the pump is pulsing, this switch is cycling and the life of the pump will be greatly reduced. Have the pump serviced.
3. **Pump not running.**
 - a. Battery is dead, recharge.
 - b. Loose battery connection, check that both terminals are connected.
4. **Pump not priming.**
 - a. Make sure the water feed line is untangled and lying at the base of the tank. Sometimes feedlines become tangled in shipping and priming cannot occur.

Note: **The pump does not contain any field serviceable parts.** It should run for 800 to 1000 hours with no maintenance needed. If leaks occur in the pump, it needs to be replaced.

The pump is fitted with a non-adjustable, factory installed, regulator. This regulator is preset at the factory and should not be adjusted.



Parts List



	Part Number	Description
1.	10092250	Pump replacement kit
2.	10097721	Spray nozzle
3.	10092253	Battery
4.	10097041	Battery charger
5.	10092262	Chemical selector valve
6.	10091864	Discharge hose replacement, black
7.	10092252	On/off switch replacement kit
8.	10097039	Caster replacement
9.	10097043	Locking caster replacement
10.	10097042	Wheel replacement
11.	10097038	Inspection port cap (some models)
12.	10092258	Mop clips (set of 2)
13.	90084615	Tap style drain
14.	690014	Metering tip kit
15.	10076302	Foot valve, EPDM
16.	10092251	Chemical feed line kit
17.	10092259	Optional foaming attachment
18.	10069255	Check valve