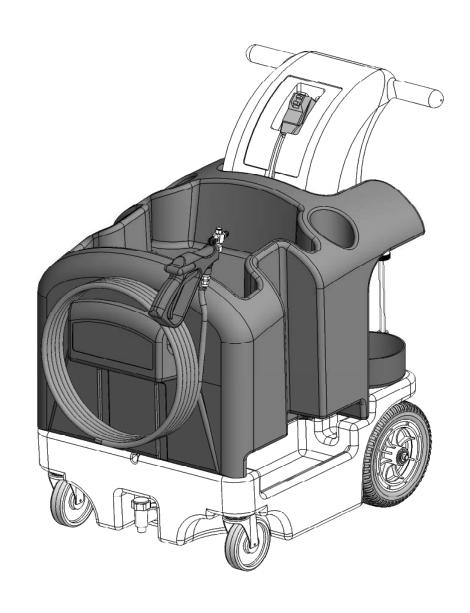
HYSITE ICS 8800



Integrated Cleaning System
120 Volt AC

THANK YOU FOR CHOOSING OUR PRODUCTS

Hydro Systems manufactures quality chemical proportioners. 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.

Packing List

Unit with integral 12.5 gallon water reservoir Spray attachment w/ 2 nozzles (installed)

14 ft. discharge hose (installed)

- (2) Bottle holders for 1 gal. rectangular bottles
- (2) Bottle holders for 1 gal. round bottles (installed)

Metering tip kit

Instruction manual

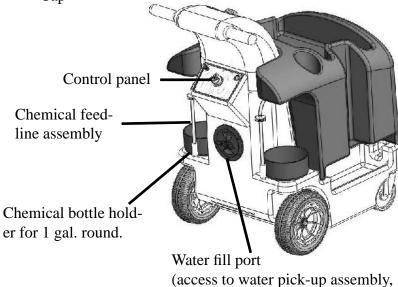
(2) Chemical feed line assemblies (installed), include:

Tube

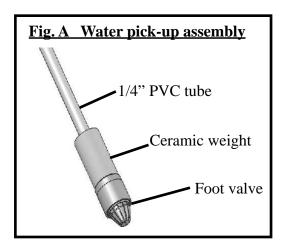
Weight

Strainer

Cap

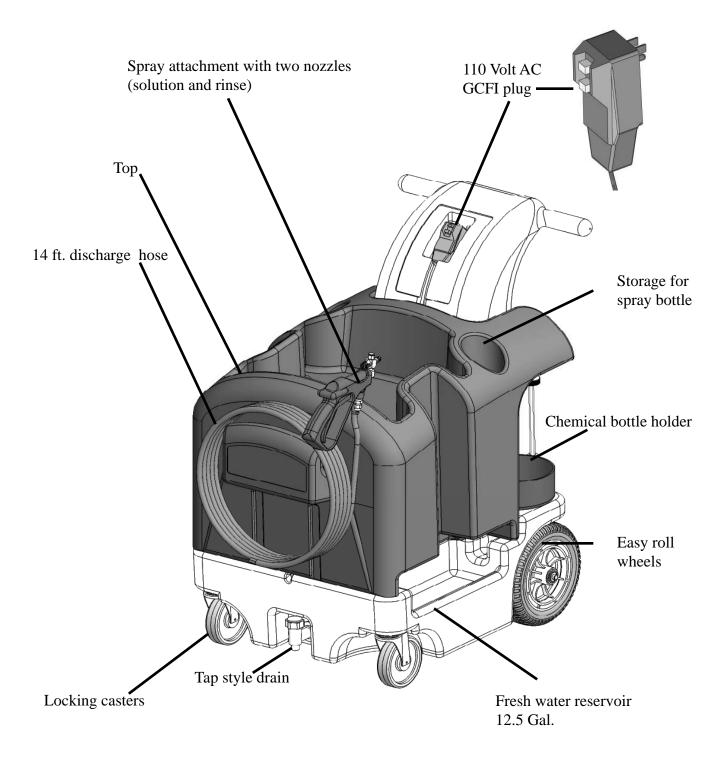


see Fig. A)



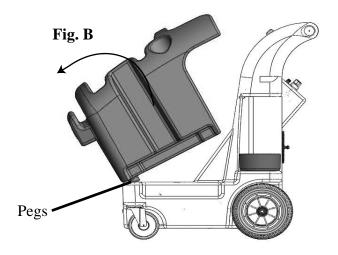
Overview:

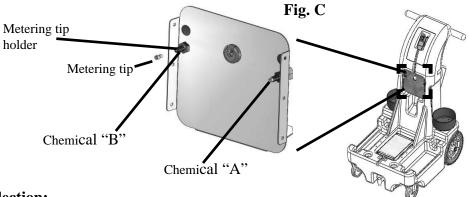
The ICS 8800 is a portable, self-contained unit designed to make daily maintenance of your facility easier. This unit includes the following features:



Install Metering Tips

- 1. Remove any items sitting on the cart top.
- 2. Remove cart top by lifting near the chemical bottles. The top has two pegs that fit into recesses in the base. See Fig. B.
- 3. Remove tubing from metering tip holder.
- 4. Push the desired metering tip into metering tip holder. See Fig. C.
- 5. Replace tubing.
- 6. Replace top.





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.

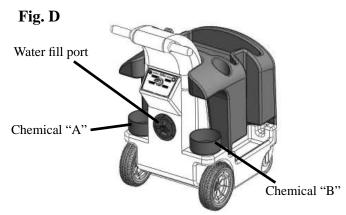
Orifice	Tip	Average
Size	Color	Dilution Ratio
	no tip	4:1
0.128	grey	4.25:1
0.098	black	4.5:1
0.070	beige	4.5:1
0.052	red	5:1
0.043	white	6:1
0.040	blue	7:1
0.035	tan	8:1
0.028	green	10:1
0.025	orange	12:1
0.023	brown	16:1
0.020	yellow	20:1
0.018	aqua	24:1
0.014	purple	32:1
0.010	pink	64:1

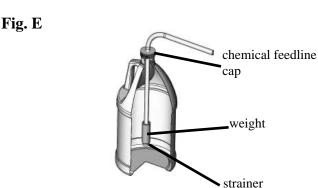
Initial Setup

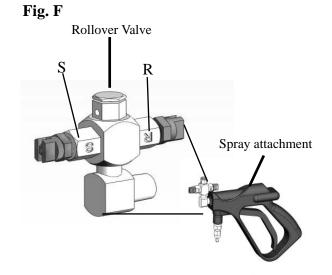
- 1. The spray attachment is in the accessory box. Attach it to the discharge hose.
- 2. Remove the black cap from the water fill port (it rotates COUNTER CLOCKWISE to open). Fill the tank with cool, clear tap water. See Fig. D.
- 3. To connect the chemicals, remove the shipping cap and the seal on your chemical bottle and discard. Place the strainer and weight into chemical bottle and screw the chemical feed line cap on to bottle. See Fig.E.

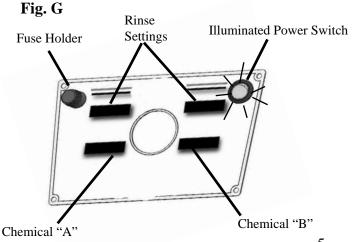
Prime the Unit

- 1. Set the nozzle on the spray attachment to "S". See Fig. F.
- 2. Set the chemical select valve to either of the products (lower two positions on select valve). See Fig. G.
- 3. Plug unit into 120 VAC Outlet.
 - a. Press and release the reset button.
 - b. Verify the red band at the base of the reset button is not visible.
 - c. Press the test button.
 - d. Verify that the red band on the rest button appears.
 - e. Press and release the reset button.
- 4. 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.)
- 5. Direct the spray nozzle into a drain or other container and pull the trigger.
- 6. Run until a steady spray pattern is established, without air in the water stream.
- 7. Release the trigger. The pump should stop almost immediately. If it does not, operate the unit longer as it is not fully primed.
- 8. Turn the selector to the other product and repeat.









Normal Operation:

- 1. The power switch is lighted when it is in the "ON" position. See Fig. G.
- 2. The pump will run when the trigger on the spray attachment is pulled and stop when it is released.
- 3. The rollover valve on the outlet of the spray attachment selects between the two attached spray nozzles. "S"should be used when applying either product, "R" is used for rinsing. The rinse is a fine spray pattern, while the "S" is a pattern that is more coarse.
- 4. Run the unit approximately 10 seconds to flush prior chemical from hose.

NOTE: To apply either chemical you must use nozzle "S" for proper dilution.

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.

Maintenance:

Daily:

- 1. When finished using the pump for the day, run the pump two to four minutes with the select valve and nozzle in rinse position, to purge chemical from the unit. See Fig. G.
- 2. Set the nozzle to "S" (keep the select valve in the rinse position) and run for ten seconds.
- 3. 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.
- 4. Unplug unit.
- 5. Check the unit for any damage or leakage.
- 6. 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.

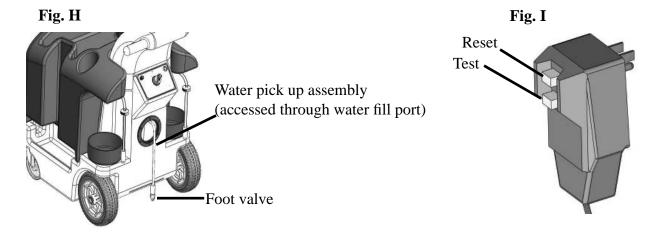
NOTE: Failure to follow this procedure after use will void the warranty on the pump.

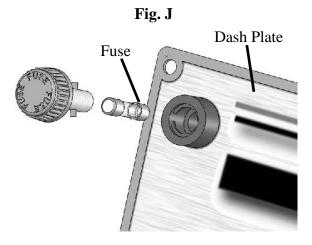
Troubleshooting:

- **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 fill port cap. Pull water pick-up assembly out through fill port. The foot valve is mounted on the end of the water pick-up assembly, and is designed to be removed without tools. See Fig. H.
 - d. Leak in one of the fittings. Remove the cart top and find the source of bubbles. Correct the leak.
- **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. Reset GFCI on plug. See Fig. I.
 - b. Check to see if fuse is blown (fuse is panel-mounted in dash). To remove fuse holder cap, rotate counter clockwise. See Fig. J.

Note:

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





Parts List

1.



2.



3.



4.



5.



6.



7.



8.



9.



10



11.



12.



13.



	Part Number	<u>Description</u>
1.	10091845	Spray Attachment
2.	10091862	Fuses (3 Pack) - 1.5 Amp - Time Delay
3.	90084404	AC Cord
4.	10091863	Pump Replacement Kit, AC
5.	10091864	Discharge Hose Replacement, Black
6.	690014	Metering Tip Kit
7.	10076302	Foot Valve, EPDM
8.	10091860	Chemical Feed Line Assembly
9.	10091861	Fill Port Cap with Cleat
10.	10091868	Switch Replacement Kit
11.	10091867	Caster Replacement Kit
12.	90084615	Tap Style Drain
13.	10091866	Wheel Replacement Kit

