

ParlorMaster

Package Should Contain:

1. Dispenser
2. Metering tip kit
3. Float
4. S-hook
5. Chemical pickup tube, 6 ft.
6. Mounting kit (4) Screws, (4) Anchors, and (4) Washers
7. Tubing reducers (3)
8. Instruction sheet

THANK YOU FOR YOUR INTEREST IN OUR PRODUCTS

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

*****NOTE*****

WEAR	protective clothing and eyewear when dispensing chemicals or other materials or when working in the vicinity of all chemicals, filling or emptying equipment, or changing metering tips.
ALWAYS	observe safety and handling instructions of the chemical manufacturer. ENSURE SYSTEM HAS 20 psi WATER PRESSURE AT ALL TIMES direct discharge away from you or other persons or into approved containers. dispense cleaners and chemicals in accordance with manufacturer's instructions. Exercise CAUTION when maintaining your equipment. reassemble equipment according to instruction procedures. Be sure all components are firmly screwed or latched into position.
ATTACH	only to tap water outlets (85 PSI maximum)
KEEP	equipment clean to maintain proper operation.
NOTE	if the unit is used to fill a sink or discharge hose can be placed into a sink, the unit must be mounted so that the bottom of the cabinet is above the overflow rim of the sink.

Installation and Operation:



1. Drill holes for the (4) wall anchors with 9/32" drill. Use the unit as a template. Make sure the unit is level. Install the unit using the screws and washers provided.



2. Remove the top screw from the clear access panel to install the float.



3. Install the float on the S-hook inside the unit. Verify that the float operation is not obstructed.



4. Install metering tip. See "Metering tip selection" area for tip selection.



5. Attach chemical pickup tube to barb. Reattach access panel. Put foot valve and weight into chemical container. Do not exceed 10 ft length of chemical pickup tube. Do not change diameter of chemical pickup tube.



6. Attach pump outlet to the tubing that goes to your sprayers. Use 1/2"OD polyethylene tubing or reducers as needed.

Installation and Operation: Continued



8. Attach air inlet tubing. Use reducers as needed.



9. Attach water inlet. Make sure that strainer washer provided is installed.



10. Adjust the water pressure to 50 PSI maximum (30 minimum). This pressure is while the water is flowing.



11. Adjust the air pressure as desired (100 PSI max, 20 PSI minimum).

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 at right can be used as a guideline. If product is noticeably thicker than water, consult the Measurement of Concentration Procedure below to achieve your desired water-to-product ratio. Because dilution can vary with water temperature and pressure, actual dilution achieved can only be ascertained by using the Measurement of Concentration Procedure.

Measurement of Concentration:

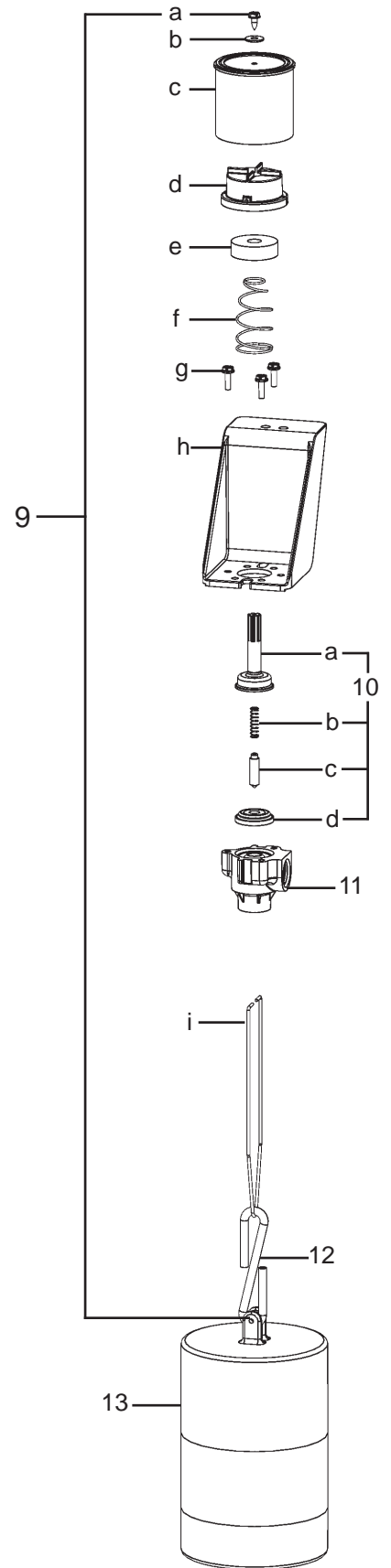
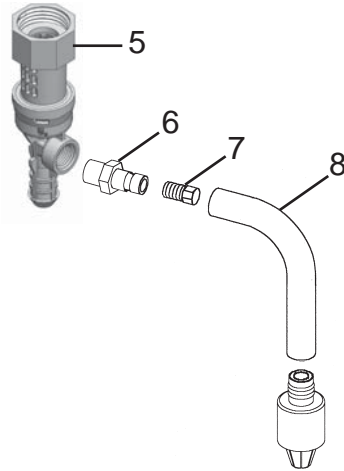
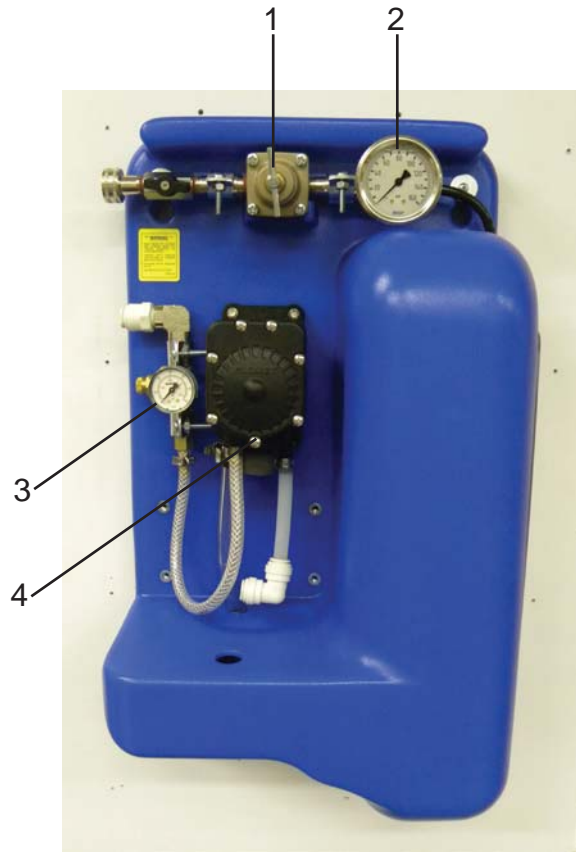
You can determine the dispensed water-to-product ratio for any metering tip size and product viscosity. All that is required is to operate the primed dispenser for a minute or so and note two things: the amount of dispensed solution, and the amount of concentrate used in preparation of the solution dispensed. The water-to-product ratio is then calculated as follows:

$$\text{Dilution Ratio (X:1) where X} = \frac{\text{Amount of Mixed Solution} - \text{Amount of Concentrate Drawn}}{\text{Amount of Concentrate Drawn}}$$

Dilution Ratio, then, equals X parts water to one part concentrate (X:1). If the test does not yield the desired ratio, choose a different tip and repeat the test. Alternative methods to this test are 1) pH (using litmus paper), and 2) titration. Contact your concentrate supplier for further information on these alternative methods and the materials required to perform them.

APPROXIMATE DILUTIONS AT 40 PSI FOR WATER-THIN PRODUCTS (1.0 CP)	
No Tip	2.5:1
Grey	3:1
Black	3:1
Beige	4:1
Red	6:1
White	8:1
Blue	10:1
Tan	12:1
Green	16:1
Orange	28:1
Brown	30:1
Yellow	40:1
Purple	85:1
Pink	128:1

ParlorMaster Parts Diagram:



Key	Part No.	Description
1	10029803	Water pressure regulator
2	10083000	Water pressure gage
3	90085155	Air pressure regulator with gage
4	90092389	Pump
5		E-Gap, 1.0 GPM
6	440101	Suction stub, 1/2"
7	690015	Metering Tip Kit
8	10031105	Chemical pickup tube
9	10091931	Water Valve rebuild kit
a		Screw, magnet cover
b		Washer
c		Magnet cover
d		Magnet cap
e		Magnet
f		Magnet spring
g		Screw
h		Bracket
i		Yoke
10	665520	Water valve parts (included in item 11)
a		Valve guide
b		Armature spring
c		Armature
d		Diaphragm
11	520000	Water valve body (included in item 11)
12	10092551	S-Hook (included in item 11)
13	5043-A	Float

Troubleshooting Chart:

Problem	Cause	Solution
1. No discharge	a. No water b. Magnetic valve not functioning d. Eductor clogged e. Clogged water inlet strainer	a. Open water supply b. Install valve parts kit d. Clean* or replace e. Disconnect inlet water line and clean strainer
2. No concentrate draw	a. Clogged foot valve b. Metering tip or eductor has scale build-up c. Low water pressure d. Discharge tube and/or flooding ring not in place e. Concentrate container empty f. Inlet hose barb not screwed into eductor tightly g. Clogged water inlet strainer h. Air leak in chemical pick-up tube	a. Clean or replace b. Clean (descale)* or replace c. Minimum 25 PSI (with water running) required to operate unit properly d. Push tube firmly onto eductor discharge hose barb, or replace tube if it doesn't have a flooding ring. e. Replace with full container f. Tighten, but do not overtighten g. Disconnect inlet water line and clean strainer h. Put clamp on tube or replace tube if brittle
3. Excess concentrate draw	a. Metering tip not in place b. Chemical above eductor	a. Press correct tip firmly into barb on eductor b. Place concentrate below the eductor
4. Failure of unit to turn off	a. Water valve parts dirty or defective b. Magnet doesn't fully return c. Unit not level d. Float movement is obstructed	a. Clean* or replace with valve parts kit b. Make sure magnet moves freely c. Make sure unit is level d. Make sure float is free to move
5. Excess foaming in discharge	a. Air leak in pick-up tube	a. Put clamp on tube or replace tube if brittle

* In hard water areas, scale may form inside the discharge end of the eductor, as well as in other areas of the unit that are exposed to water. This scale may be removed by soaking the eductor in a descaling solution (deliming solution). To remove an eductor located in the cabinet, firmly grasp water valve and unthread eductor. Replace in same manner. Alternatively, a scaled eductor can be cleaned (or kept from scaling) by drawing the descaling solution through the unit. Operate the unit with the suction tube in the descaling solution. Operate the unit until solution is drawn consistently, then flush the unit by drawing clear water through it for a minute. Replace concentrate container and put suction tube into concentrate.

