Troubleshooting Chart

Problem	Cause	Solution
1. No discharge	 a. No water b. Magnetic valve not functioning c. Eductor clogged d. Clogged water inlet strainer 	 a. Open water supply b. Install valve parts kit c. Clean* or replace d. Disconnect inlet water line and clean s 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 i. Selector out of position 	 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 i. Assure selector is in position desired
3. Excess concentrate draw	a. Metering tip not in place b. Chemical above eductor	a. Press correct tip firmly into barb on eductorb. 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. Push button stuck 	 a. Clean* or replace with valve parts kit b. Make sure magnet moves freely. c. Remove button and clean cabinet/button to remove any dirt lodged in slide recess
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.







and observe all warnings and cautions. WEAR ALWAYS ALWAYS ALWAYS TION when maintaining your equipment. equipment clean to maintain proper operation. KEEP WEAR equipment or changing metering tips. ALWAYS screwed or latched into position. ATTACH only to tap water outlets (85 PSI maximum). NOTE

Installation and Operation:

- 2. checkvalves and "Y" fittings provided. See diagram on page 3.
- 3. tip on the eductor. (Repeat for all eductors.)
- 4. PERIODICALLY FOR CLOGGING: CLEAN IF NECESSARY.
- 5. on longer tubes to allow discharge tube to conveniently hang from dispenser when not in use.
- 6. may be installed in the holes in the cabinet sides to prevent easy removal of cover.
- 7. required for proper operation.) Connect opposite end of hose to water supply. Turn water supply on.
- 8 Push button to start flow of desired water/concentrate solution, and hold until supply tube is primed (filled). Then push the button whenever dispensing is desired, and release button to stop flow of solution. If you wish to be able to lock the button in the "on" position: clip or bend the two tabs behind the lower front portion of the button (see diagram). This allows the button to be fully depressed and allows it to latch in the "on" position. To unlock, pull the button out.

Proportioner Model 39711 & 39721 with E-gap Eductors

Package Should Contain:

- 1. Proportioner unit.
- 2. Supply tubing 7' total.
- 3. Foot valve assembly & weight.
- 4. Discharge tubing for each eductor.
- 5. Metering tip kit.
- 6. Mounting anchor kit.
- 7. Hose hook for 3.5 GPM
- eductor. 8. Instruction sheet.
- THANK YOU FOR YOUR INTEREST IN OUR PRODUCTS

Hydro Systems manufactures quality chemical proportioning equiment. Please use this equipment carefully

protective clothing and eyewear when dispensing chemicals or other materials.

observe safety and handling instructions of the chemical manufacturers.

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

dispense cleaners and chemicals in accordance with manufacturer's instructions. Exercise CAU-

protective clothing and eyewear when working in the vicinity of all chemicals, filling or emptying

re-assemble equipment according to instruction procedures. Be sure all components are firmly

If the unit is used to fill a sink or the 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.

1. Find suitable place close to water source for unit. Mounting bracket should be installed approx. 5' from floor. Level bracket & mark holes. Drill 9/32" holes & install mounting anchors and screws in bracket. Drill holes for the three wall anchors with a 5/16" drill bit, using the cabinet back as template for proper spacing of the mounting screws. Install mounting anchors, and then screws in top two anchors. Slide key holes in cabinet back over screw heads, tighten screws, then install bottom screw. Do not mount more than 6 feet (1.8 meters) above the bottom of the concentrate container, nor below the highest concentrate level (never mount your concentrate higher than the proportioner).

Select metering tips (up to 4) for the selector valve. (see next two sections) Push each tip firmly into a separate hose barb extending from the selector valve. A tip with no hole (clear plastic) can be used to block any valve port being used. (This may be used for dispensing water only). Cut tubing provided to create pick-up tube assembly using

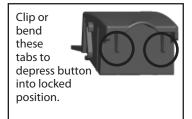
Slip other end of supply tube through an opening in either side of the cabinet and push over the hose barb/metering

Place foot valve ends of supply tubes into concentrate containers. REMEMBER TO CHECK FOOT VALVE STRAINERS

A short discharge tube is used with the 1GPM eductor; minimum tube length is 8 inches (20cm) for proper operation. Longer tubes (4 feet) are used with a 3.5 GPM eductor. Do not remove the flooding rings from inside the tubes. Slide end of tube with flooding ring over eductor discharge outlet. (Repeat for all eductors.) Hooks may be installed

Replace cabinet cover. Push the sides in, behind the latch holes, to snap the cover in place. The two screws provided

Connect water supply hose of at least 3/8 " ID to water inlet swivel. (Minimum 25 PSI pressure, with water running, is



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 left 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. The clear, undrilled tip is provided to permit drilling to size not listed should you need a dilution ratio that falls between standard tip sizes.

NOTE: A 1 GPM eductor is grey; a 4 GPM eductor is yellow. Refer to parts diagram if unfamiliar with names of system components.

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.

Dilution Ratio (X:1) where X = <u>Amount of Mixed Solution — Amount of Concentrate Drawn</u>

Tip

Color

No Tip

Grey

Black

Beige

Red

White

Blue

Tan

Green

Orange

Brown

Yellow

Aqua

Purple

Pink

Orifice

Size

.187

.128

.098

.070

.052

.043

.040

.035

.028

.025

.023

.020

.018

.014

.010

Amount of Concentrate Drawn

APPROXIMATE DILUTIONS

AT 40 PSI FOR WATER-THIN PRODUCTS (1.0 CP)

Ratio (per Eductor Flow)

3.5 GPM

4:1

4:1

5:1

8:1

13:1

22:1

26:1

34:1

52:1

64:1

71:1

102:1

128:1

213:1

447:1

1 GPM

2.6:1

2.6:1

2.5:1

3:1

5:1

7:1

9:1

11:1

17:1

19:1

22:1

32:1

39:1

64:1

128:1

Std. Drill

Number

(3/16)

(30)

(40)

(50)

(55)

(57)

(60)

(65)

(70)

(72)

(74)

(76)

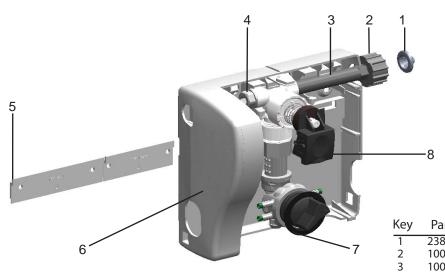
(77)

(79)

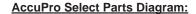
(87)

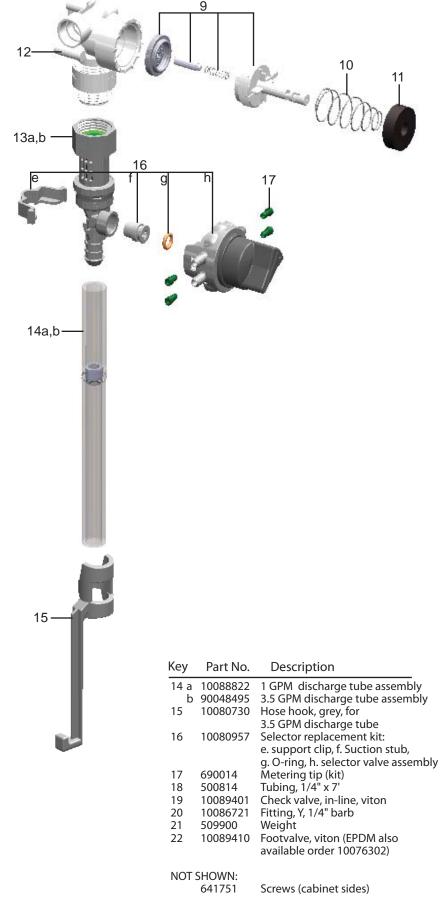
Dilution Ratio, then, equals X parts water to one part concentrate (X:1). If the test does not yield the desired ratio, choose a different tip and repeat the test. Alternative methods to this test are 1) pH (using litmus paper), and 2) titration. Contact your concentrate supplier for further information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

AccuPro Select Parts Diagram List:



t
et
ıre,
et
ly
Ыy





Pick-up Parts Diagram:

