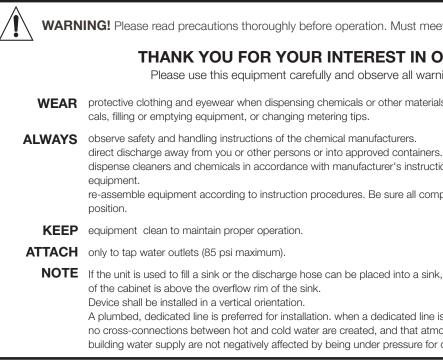




Package Contains:					
1.	Proportioner unit.				

2. Suction tubing 3. Foot valves and weights.



#### Installation and Operation:

- right).
- 2. Select metering tips (see next section) and insert a tip into each hose barb on the eductor bodies.
- valve into the same ends of the tubes.
- 4. Slip open ends of suction tubes over the hose barbs/metering tips on the eductors (one at each side).
- 5. Install outer discharge tubes. Put the ends of the tubes into the appropriate sink compartments.
- CALLY FOR CLOGGING: CLEAN IF NECESSARY.
- proper operation.) Connect other end of hose to water supply. Turn water supply on.
- open.) There may be some water discharge from the eductor vents until the air is purged.



# SinkMaster Model 883, 886AG with Air-Gap Eductors

4. Discharge tubes. 5. Metering tip kit(s). 6. Mounting anchor kit.

WARNING! Please read precautions thoroughly before operation. Must meet all applicable local codes and regulations.

## THANK YOU FOR YOUR INTEREST IN OUR PRODUCTS

Please use this equipment carefully and observe all warnings and cautions

WEAR protective clothing and eyewear when dispensing chemicals or other materials or when working in the vicinity of all chemi-

dispense cleaners and chemicals in accordance with manufacturer's instructions. Exercise CAUTION when maintaining your

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

**NOTE** 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

A plumbed, dedicated line is preferred for installation. when a dedicated line is not available, installation shall ensure that no cross-connections between hot and cold water are created, and that atmospheric vaccum breakers integrated into the building water supply are not negatively affected by being under pressure for over 12 continuous hours.

1. Hold unit up to wall and drill holes for the wall anchors with a 9/32" drill. Install mounting anchors, and then install screws into top two anchors. Slide key holes at top of dispenser over screw heads. Install bottom two screws through holes in cabinet. Tighten all screws. Do not mount more than 6 ft. (1.8 m) above bottom of concentrate container, nor below the highest concentrate level (never mount your concentrate higher than the dispenser). Turn ball valves so they are in a horizontal position (pointing left and

3. Suction tubes should reach from hose barbs on eductors to bottoms of concentrate containers. Cut tube supplied to lengths required. (There is enough tube for 7 feet of tube per eductor.) Slide a weight over one end of each suction tube and slide a foot

6. Place foot valve ends of supply tubes into concentrate containers. REMEMBER TO CHECK FOOT VALVE STRAINER PERIODI-

7. Connect water supply hose of at least ½" ID to water inlet swivel. (Minimum 25 psi pressure, with water running, is required for

8. Purge air from the system by opening the ball valves briefly. (Ball valves will be in vertical position -- pointing up and down -- when

9. Open one ball valve to start flow of desired water/concentrate solution, and run unit until supply tube is primed (filled). Repeat priming operation for other ball valve. Then, open ball valves when dispensing is desired. Close ball valves to stop flow of solution. 10. It is essential that the discharge hose not be obstructed. If discharge is restricted, water will flow out the eductor vents.

#### Metering Tip Selection:

The final concentration of the dispensed liquid is related to both the size of the metering tip opening and the viscosity of the liquid being siphoned. If product viscosity is noticeably greater than that of water, consult the procedure for Measurement of Concentration to achieve your desired water-to-product ratio. For water-thin products, use the chart as a guideline. Because such factors as inlet water pressure and temperature can affect dilution ratios, the figures listed on the chart are only approximate. Test the actual dilution you are achieving using the Measurement of Concentration procedure for best results. Use the undrilled, clear tip for drilling a size not listed.

#### 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:

Dilution Ratio (X:1) where

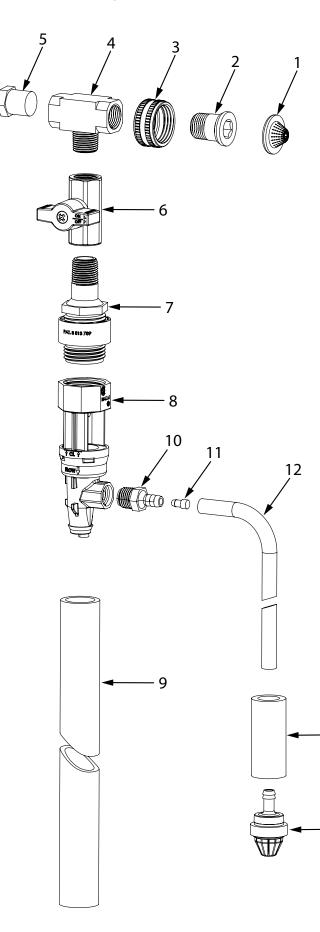
X = <u>Amount of Mixed Solution - Amount of Concentrate Drawn</u> Amount of Concentrate Drawn

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)

	Orifice	(Std. Drill	_
Tip Color	Size /	Number)	Ratio
No Tip	.187	(3/16)	6:1
Gray	.128	(30)	6:1
Black	.098	(40)	7:1
Beige	.070	(50)	12:1
Red	.052	(55)	20:1
White	.043	(57)	28:1
Blue	.040	(60)	32:1
Tan	.035	(65)	45:1
Green	.028	(70)	80:1
Orange	.025	(72)	95:1
Brown	.023	(74)	120:1
Yellow	.020	(76)	150:1
Aqua	.018	(77)	190:1
Purple	.014	(79)	300:1
Pink	.010	(87)	750:1
Lt. Purple	.009	(89)	875:1

## Parts Diagram/List



# TROUBLESHOOTING CHART:

Problem	Cause	Solution	
1. No discharge	a. No water	a. Turn on water supply	
2. No concentrate draw	a. Clogged foot valve	a. Clean or replace	
	<ul> <li>Metering tip or eductor has scale build-up</li> </ul>	b. Clean (descale) or replace	
	c. Low water pressure	<ul> <li>Minimum 25 psi (with water running) required to operate unit properly</li> </ul>	
	d. Discharge tube not in place	d. Push tube firmly onto eductor discharge hose barb,	
	e. Concentrate container is empty	e. Replace with full container	
	f. Inlet hose barb not screwed into eductor tightly	f. Tighten, but do not overtighten	
3. Excess concentrate draw	a. Metering tip not in place	a. Press correct tip firmly into barb on eductor	
4. Water discharge from air vents of eductor	a. Restricted discharge hose	a. Be sure discharge tube is not immersed, kinked or elevated. Be sure there is no iquid in the discharge tube when beginning to operate dispenser	
	a. High water pressure	<ul> <li>b. Install pressure regulator if flowing water pressure exceeds 85 psi (flowing)</li> </ul>	

**NOTE:** 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, unthread it. 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.

Key	Part No.	Description		
1	HYD238100	Strainer washer		
2	HYD276800	Swivel stem		
3	HYD506502	Swivel nut		
4	HYD133000	Branch tee		
5	HYD323338	Pipe plug		
6	HYD10080320	Ball valve		
7	HYD10091989	Adapter, APAD		
8	HYD10099713	3.5 GPM Eductor - Yellow		
9	HYD505804	Outer Discharge Tube assembly		
10	HYD3401R	Hose barb assembly - Only for 1 product version (included in eductor assemblies)		
11	HYD10027209	Metering tip kit(s)		
12	HYD500828	Tubing 1/4" ID x 8' Long		
13	HYD509900	Weight		
14	HYD10089410	Foot valve, Viton		
Not Shown:				
	HYD10080308	Bracket/cover		
	HYD10027700	3/8" nipple (Only for 2 product version)		
	HYD10080307	Bracket/cover		
	HYD10077500	Angled Barb with Viton O-ring (only for 2 product version)		

-13

4