

ABANAKI
CORPORATION

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1-800-358-SKIM (7546)
www.abanaki.com

EconoMixer™ 100

Installation

Package Contents:

1. Drum Proportioner Assembly
2. Suction Tube w/Foot Valve (4ft.)
3. Discharge Tube (4ft.)
4. Metering Tip Kit (14 tips)
5. Product Information Sheet

Please use this equipment carefully and observe all warnings and cautions: **WEAR** protective clothing and eyewear when: dispensing chemicals or other materials; working in the vicinity of chemicals; filling or emptying equipment; changing metering tips.

ALWAYS observe safety and handling instructions from the chemical manufacturers.

ALWAYS direct discharge away from you and other persons into approved containers.

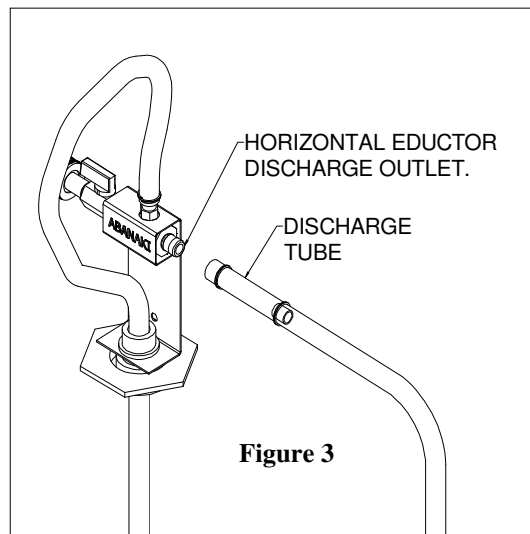
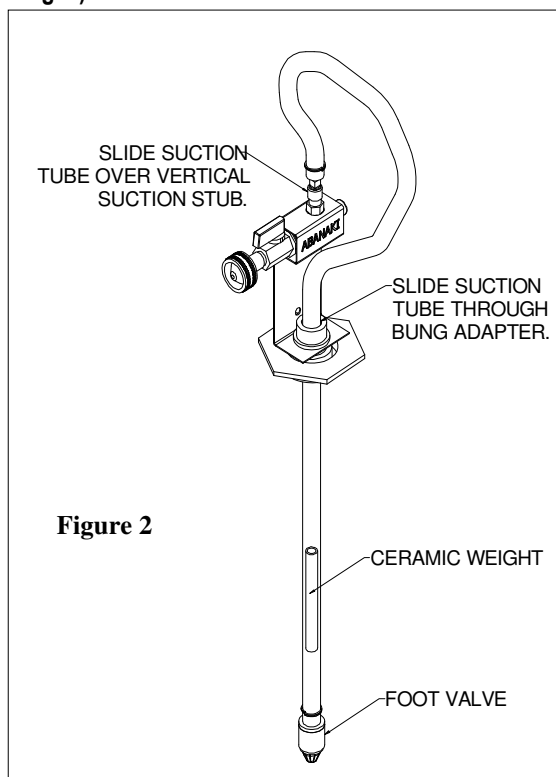
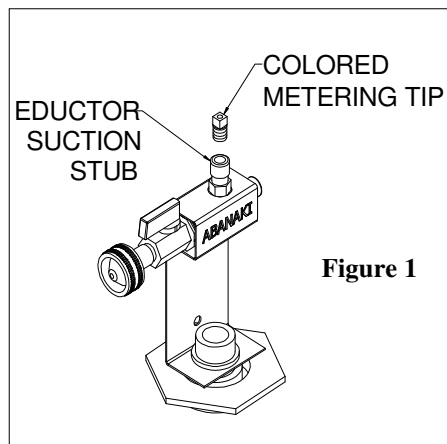
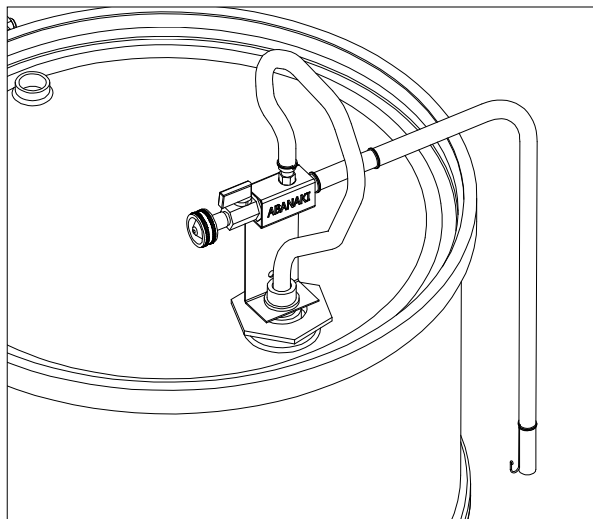
ALWAYS dispense cleaners and chemicals in accordance with manufacturer's instructions. Exercise CAUTION when maintaining your equipment.

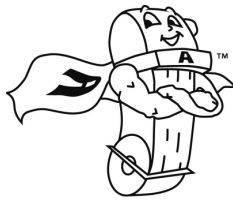
ALWAYS re-assemble equipment according to instructions. Be sure all components are firmly screwed into position.

ATTACH only to tap water outlets (85 PSI maximum).

INSTALLATION:

1. Select a metering tip (see "**Metering Tip Selection**" in next section), and insert into the Eductor Suction Stub. (See Fig. 1) Slide the open end of the suction tube through the bung adapter, then over the vertical suction stub. (See Fig. 2)
2. Slide end of discharge tube over the Horizontal Eductor Discharge Outlet. (See Fig. 3)





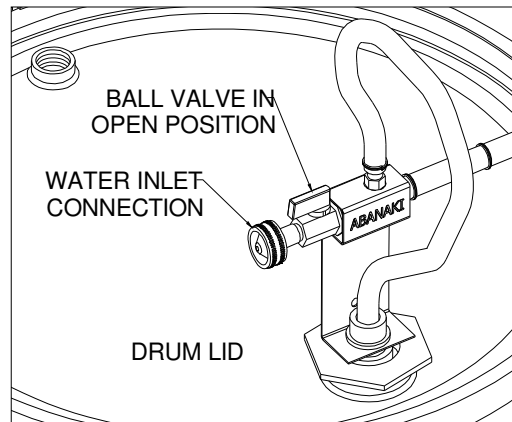
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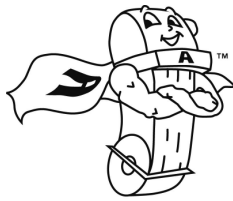
3. Remove either the 3/4" or 2" bung from upright drum.
4. Insert the foot valve end of the suction tube into the drum.
5. Swivel the drum adapter several turns in the bung opening until the bracket is secure.
6. Install a minimum 1/2" ID water hose between the inlet swivel on the eductor assembly and a water supply spigot (minimum 25PSI flowing water pressure is required to operate this unit).
7. Turn on water supply. To begin dispensing solution, open ball valve at inlet to unit.



Metering Tip Selection:

The final concentration of the dispensed liquid is related to both the size of the metering tip opening (orifice) 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**" section, on next page, to achieve your desired water-to-product ratio. For water-thin products, use the chart below as a guideline. Because such factors as inlet water pressure and temperature can affect dilution ratios, the figures listed below are only approximate. Test the actual dilution you are achieving using the "**Measurement of Concentration**" procedure for best results. An undrilled, clear tip is supplied for drilling sizes not listed.

Tip Color	Drill Size	Approximate Dilution Ratio at 40 PSI, water-thin viscosity (1.0cp)
No Tip		4.5:1
Gray	30	5:1
Black	40	6:1
Beige	50	9:1
Red	55	20:1
White	57	24:1
Blue	60	26:1
Tan	65	31:1
Green	70	50:1
Orange	72	70:1
Brown	74	90:1
Yellow	76	100:1
Purple	80	200:1
Pink	87	400:1



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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.

1. The amount of dispensed water/product mixture and
2. The amount of concentrate used in preparation of the solution dispensed.

The water-to-product ratio is then calculated as follows:

Dilution (X) = Amount of Mixed Solution - Amount of Concentration Drawn

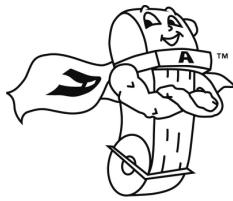
Dilution ratio, then equals X parts water to one part concentration (X:1).

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.

Troubleshooting Problem:	Cause	Remedy
1. Unit does not draw concentrate	<ol style="list-style-type: none"> a. Clogged foot valve strainer b. Metering tip orifice obstructed c. Water pressure too low d. Mineral deposits in eductor e. Flooding ring not in place 	<ol style="list-style-type: none"> a. Clean or replace b. Rinse orifice or replace c. Minimum 25PSI required. Re-plumb line or use different source d. Descale** or replace eductor e. Replace discharge tube
2. Water gets into concentrate container	<ol style="list-style-type: none"> a. Heavy mineral deposits in eductor b. Faulty or missing foot valve 	<ol style="list-style-type: none"> a. Descale or replace eductor b. Repair or replace foot valve
3. Unit continuously draws from unit concentrate	<ol style="list-style-type: none"> a. End of discharge tube lower than foot valve. 	<ol style="list-style-type: none"> a. Always hang discharge tube using hook provided on end so that it is above foot valve level.

** Mineral deposits, known as scale, may form at the discharge of the eductor, particularly in hard water areas. To remove scale, soak the eductor in a descaling or deliming solution. Alternately, the descaling solution can be siphoned into the eductor by operating the unit with the foot valve in the descaling solution. After operating the unit in this manner for a minute, put foot valve in clear water and operate for another minute to flush the unit. Return the foot valve to the concentrate for normal use.

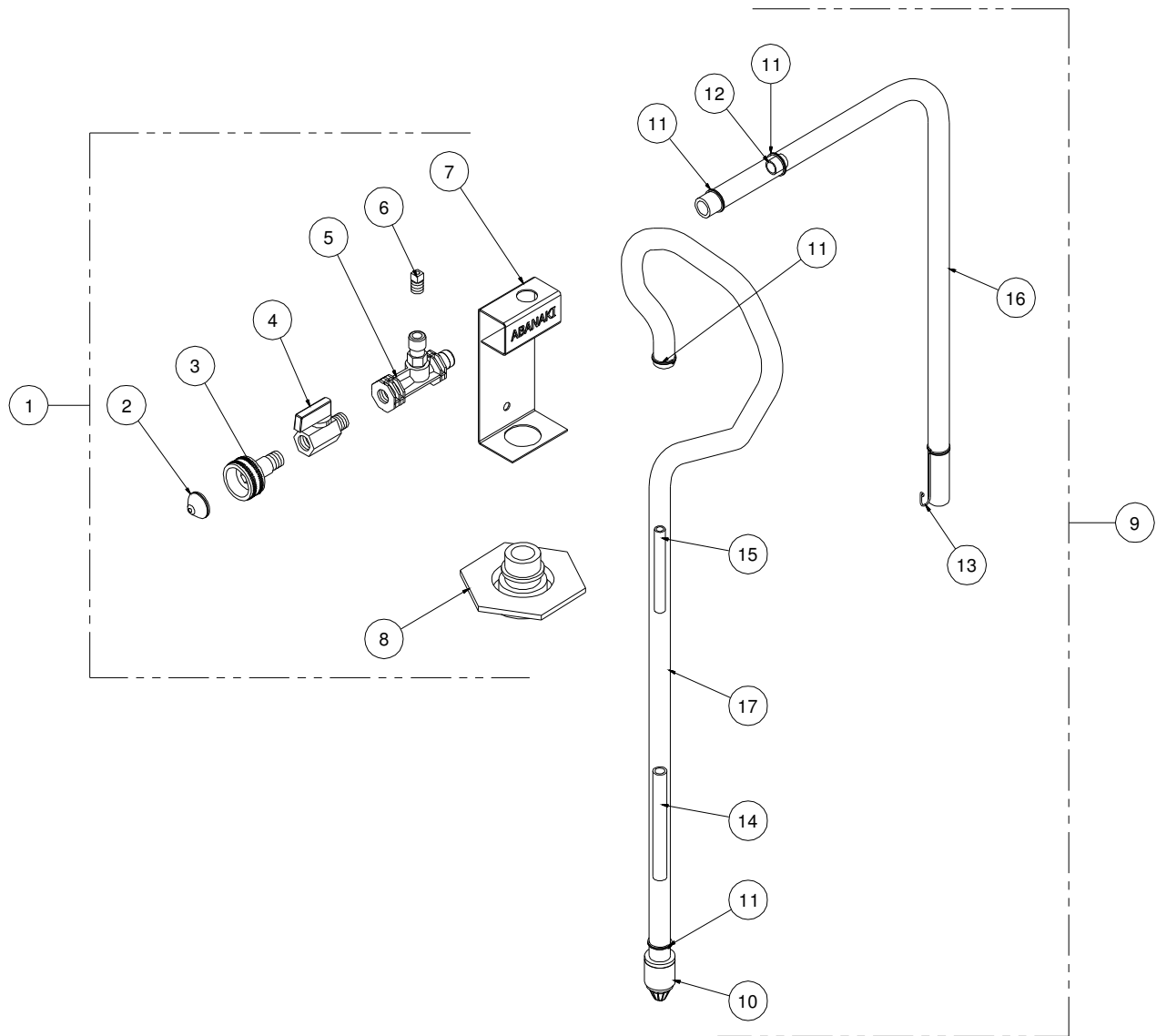


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ITEM	QTY	PART NAME	PART NUMBER	ITEM	QTY	PART NAME	PART NUMBER
1	1	Complete Base (Parts 2-8)	PEMIX-01	9	1	Tube Set (Parts 10-17)	PEMIX-10
2	1	Strainer Washer	PEMIX-01A	10	1	Foot Valve	PEMIX-01G
3	1	Hose Swivel	PEMIX-01B	11	4	Wire Clamp	PEMIX-01H
4	1	Ball Valve w/Nipple	PEMIX-01C	12	1	Flooding Ring	PEMIX-01I
5	1	Eductor Assembly	PEMIX-01D	13	1	Discharge Tube Hook	PEMIX-01J
6	1	Metering Tip Kit (14 tips)	PEMIX-02	14	1	Ceramic Weight	PEMIX-01K
7	1	Mounting Bracket	PEMIX-01E	15	1	1/4" Restrictor Tube	PEMIX-01L
8	1	Bung Assembly	PEMIX-01F	16	1	Discharge Tube	PEMIX-01M
				17	1	Suction Tube	PEMIX-01N