



# MAINTENANCE INSTRUCTIONS

## ADJUSTING FLOW RATES

Flow rates of the water and syrup are adjusted based on the desired ratio. For example: if the desired ratio is 5:1, then the flow rate of the water is 5 times that of the syrup.

If the desired finished drink total flow rate is 3.0 ounces per second, then the water flow rate is 2.5 oz./sec. and the syrup flow rate is 0.5 oz./sec. (The water at 2.5 oz./sec. is five times the 0.5 oz./sec. syrup flow rate.)

Note: Always adjust water within its range.

<b>Water Flow Rates At Selected Ratios</b>				
<b>Water To Syrup Ratio</b>	<b>Water at 1.5 oz./sec. Total Flow</b>	<b>Water at 3.0 oz./sec. Total Flow</b>	<b>Water at 3.75 oz./sec. Total Flow</b>	<b>Water at 4.5 oz./sec. Total Flow</b>
2 to 1	1.00 oz./sec.	2.00 oz./sec.	2.50 oz./sec.	3.00 oz./sec.
3 to 1	1.13 oz./sec.	2.25 oz./sec.	2.81 oz./sec.	3.38 oz./sec.
4 to 1	1.20 oz./sec.	2.40 oz./sec.	3.00 oz./sec.	3.60 oz./sec.
5 to 1	1.25 oz./sec.	2.50 oz./sec.	3.13 oz./sec.	3.75 oz./sec.
6 to 1	1.29 oz./sec.	2.57 oz./sec.	3.21 oz./sec.	3.86 oz./sec.
7 to 1	1.31 oz./sec.	2.63 oz./sec.	3.28 oz./sec.	3.94 oz./sec.



## SETTING RATIOS

**If the ratio varies and must be adjusted often, it is probably the result of a restricted syrup system.** It is then time to clean and sanitize the syrup tubing and cooling coils and check for other problems such as syrup pumps, etc.

Note: Try raising the pressure on the pump before cleaning.

**Set the water flow rate first, then adjust the syrup to the desired ratio.** This gives the most accurate valve flow setting possible. Measure the ratio and adjust the syrup flow, if necessary. This will result in uniform flow, better carbonation retention, and improved drink quality.

When using a ratio cup always take these precautions to ensure accuracy:

- After installing the separator tube, open the valve to fill the syrup tube before starting the ratio test.
- Clean the cup thoroughly between tests so there is no carry-over from one test to the next.
- Fill the cup to approximately 3/4 full and use approximately the same quantity for each test to ensure accurate settings.
- Take another sample to verify the setting.

