SodaShop

	7" Touchscreen Interface	Carbonated – or – Still Water	Up to Four Syrup Options	120 VAC	69 W
Pumping Current/Power			Standard Feature	es	

Water	0.41 A	9.84 W
+1 Syrup	0.61 A	14.64 W
+2 Syrups	0.82 A	19.68 W
+3 Syrups	1.03 A	24.72 W
+4 Syrups	1.24 A	29.76 W



- Operation is controlled via a 7" touchscreen providing the user with complete control of ratios between water and each individual flavor.
- SodaShop allows a selection of pre-determined volumes at a press of a button.
- SodaShop is capable of storing hundreds of flavor combinations and five user-determined favorite recipes.
- Stored combinations automatically fall into valid and invalid recipe bins based on the entered current syrups installed to inform the user of selectable saved combinations based on current availability.
- Favorites can quickly be dispensed from the home screen to provide a drink with minimal wait time.
- The system can plug directly into a wall 120VAC outlet to provide fast and easy access and operation.
- SodaShop uses four peristaltic pumps for syrup control providing precise control and easy-to-swap tubing for replacement and cleaning.
- Main water is pumped via air pressure to prevent cavitation maximizing carbonation for the optimal drinking experience. This method also provide self-pressure relief preventing overpressure conditions in the water container.
- The system is designed to allow any standard 2-liter bottle for water. Flavors are currently relegated to using third-party syrups bottle with modified caps.

Component Ratings

24 VDC Power Supply	AC Input 100-240 VAC	DC Output 24 VDC	Rated Current 6 A	Rated Power 144 W	Input Freq 50-60 Hz	Input Type 3-Terminal AC
5 VDC Power Supply	AC Input 110-220 VAC	DC Output 5 VDC	Rated Current 3 A	Rated Power 15 W	Input Freq 50-60 Hz	Input Type 2-Terminal AC
Main Water (Air) Pump	Voltage M 24 VDC	lax Power T 10 W			Pressure 5 kPa (Safety Overpressure
Peristaltic Syrup Pumps (4)		age Max Po /DC 5 W	•		Motor Life 800 hrs	Rollers 3
System Tubing		Inner Diar Outer Dia	meter: 5/	32"	ors/Syrup 3 mm 5 mm	
Raspberry Pi — RP2040		Voltage M 5 VDC		munication G al (USB-C)	PIO Voltage 3.3 VDC	
Display		U		unication Size		e
Motor Control Relays	Volta 24 VI	•	, ,		Voltage/Cur V (low) — 5	