

SHURflo®

WATER BOOST SYSTEM

PUMP SPECS

Motor Design (Model 8025-933-399)	115 VAC 60 Hz permanent magnet; thermally protected with a non-replaceable integral fuse
Motor Design (Model 8095-942-349)	230 VAC 60 Hz permanent magnet; thermally protected with a non-replaceable integral fuse
Duty Cycle	Intermittent (max. run time 20 min. within one hour)
Turn-On/Off Pressure	70 PSI [4.8 bar] / 90 PSI [6.2 bar]
Recommended max. inlet pressure	30 psi [2 bar]
Check Valve	Internal (prevent reverse flow)
Temp. Limits	34 ° - 120 ° F [1.1 ° - 49 ° C]
Pump materials	EPDM valves, Santoprene diaphragm, Nylon housing
Port / Fitting	QD ports female / 3/8" barb fittings

TANK SPECS

Total Volume (air/liquid)	2 gal [7.6 lt]	6 gal [22.7 lt]
*Approx. Draw Down Vol.	0.75 gallons (97 Oz.)	3.1 gallons (397 Oz.)
Bladder Material:	Butyl	Butyl
Housing Material	Stainless Steel	Stainless Steel
Temp. Limits	34 ° - 120 ° F [1.1 ° - 49 ° C]	34 ° - 120 ° F [1.1 ° - 49 ° C]
Max. Working Pressure	117 psi [8 bar]	117 psi [8 bar]
Port	1/2" NPT Female	1/2" NPT Female

* Draw down volume varies with tank pre-charge, pump operating pressure and city water pressure. Specs reflect tests at 50 psi [3.4 bar] pre-charge w/20 psi [1.3 bar] city water pressure.

WATER BOOST SYSTEM LIMITED WARRANTY

SHURflo Water Boost Systems are warranted to be free of defects in material and workmanship under normal use, for a period of one (1) year from the date of manufacture, or one (1) year of use, with proof of purchase. This limited warranty will not exceed two (2) years, in any event.

The limited warranty will not apply to Water Boost Systems that were improperly installed, misapplied, or incompatible with fluids or components not manufactured by SHURflo. Water Boost System failure due to foreign debris is not covered under the terms of this limited warranty. SHURflo will not warrant any Water Boost System which is damaged or modified outside the SHURflo factory.

Returns are to be shipped postage prepaid to either service center; SHURflo Cypress, CA or Elkhart, IN. SHURflo shall not be liable for freight damage incurred during shipping, package returns carefully.

For complete warranty details consult S/B #1049.



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SHURflo reserves the right to update specifications, prices, or make substitutions.

SHURflo ★

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INSTALLATION AND OPERATION MANUAL

WARNING: “Risk of electrical shock.” The pump is supplied with a grounding connector and grounding-type attachment plug. To reduce the risk of electrical shock, be certain that it is connected only to a properly grounded, grounding-type receptacle. To prevent electrical shock, disconnect power before initiating any work. In the case of pump failure, the motor housing and/or the pumped fluid may carry high voltage to components normally considered safe.

WARNING: Never pressurize the accumulator tank higher than its maximum operating pressure of 117 psi [8 bar] limit. Never expose the tank to higher than 120°F [49°C] ambient temperature environment.

CAUTION: **DO NOT** adjust the pump pressure switch setting. Switch setting will not significantly alter flow rate or pressure. Improper adjustment may cause severe overload or premature failure, *not covered under warranty.*

CAUTION: **DO NOT** operate the pump at pressures, which cause the motor to exceed the amperes rating indicated on the nameplate. The pump is equipped with thermal breakers to interrupt operation due to excessive heat. Once the temperature of the motor is within proper limits it will automatically reset, and the pump *will start operation without warning. The motor is equipped with an integral non-serviceable fuse. Pumps which have an “open” fuse are not covered under the limited warranty.*

ACCUMULATOR STORAGE/FLOW-RATES

SHURflo Water Boost Systems are for applications when low, fluctuating, or no water pressure exists. The pump and accumulator maintain consistent water pressure to a source (for a given duration) as long as incoming water is sufficient. Depending upon the Water Boost System model, support of up to 4 non-carbonated valves in moderate volume accounts is achievable. The Water Boost Systems may be used to supply water to a carbonator for back-up, during short periods of insufficient water pressure. The pump pressurizes the accumulator to 90 psi. [6 bar]. Consult the flowchart for projected length of flow and/or back-up. The pump is NSF, UL and C-UL listed.

INSTALLATION

WARNING: **DO NOT** pre-charge the accumulator with CO₂. In the event of failure carbonated water will react with brass components in system equipment. Use clean, dry air or nitrogen.

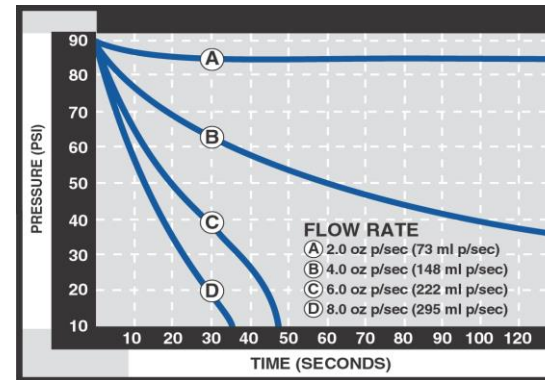
CAUTION: a qualified electrician, in accordance with all local electrical codes should perform all electrical outlet (receptacle) wiring connections. Circuit protection is dependent on the individual application requirements. Failure to provide proper circuit protection may result in a motor failure, *which is not covered under warranty.*

1. The water booster system is to be installed between the water source and non-carbonated valve(s) and/or carbonator (see Installation figure in the following page). Turn off city water supply before installation.
Note 1: Depending upon your application, it is recommended that a SHURflo 50 psi water pressure reducer valve be installed after the filter system before the line is teed just prior to the carbonator and the non-carb valves.
2. Secure water booster to a solid surface. It may be mounted vertical or horizontal near the city water entry; 2 gal. water booster will fit under most drop-in dispenser cabinet. Be certain the pre-charge valve is accessible for checking/filling the tank.

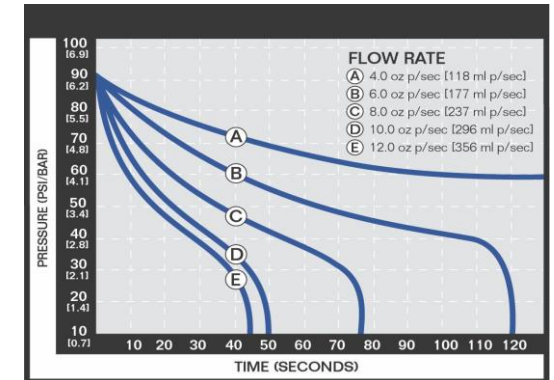
- Use NSF listed high pressure braided 3/8" ID [9.5 mm] tubing to connect the inlet/outlet ports. Secured all tubing connections with SS, step-less Oetiker® clamps. Cable-tie all tubing securely to prevent kinks or sags that can inhibit performance or cause damage to the pump.
- Remove accumulator air fitting cap and pre-charge with clean pressurized air, or nitrogen. Tank should be pre-charged at the minimum required pressure of the application. Check accumulator label for pre-charge pressure. Replace air fitting cap securely. Check pressure bi-monthly.
- In most cases 50 psi [3.4 bar] will provide the required pressure at a typical beverage dispense system. For best pump performance, set accumulator pre-charge pressure at approximately 20 psi [1.3 bar] below max. pump pressure (as stated on the pump label), and/or at approximately the pump turn-on pressure. For further information consult the factory.
- Turn ON incoming water supply.
- Plug in Water Boost System and carbonator.
- Open the dispenser valves and purge air/water from tubing/accumulator. Close the dispenser valve(s) and let the pump fill the accumulator. The pump may not obtain shut-off pressure if excessive air is trapped within the system. Repeat this step 3-5 times as necessary, before taste testing.

NOTE 2: if subject to freezing temperature, the pump, tubing and accumulator tank **MUST** be drained of all water.

WATER BOOST SYSTEM PERFORMANCE (Units tested with 50 psi pre-charge and 20 psi city water pressure)

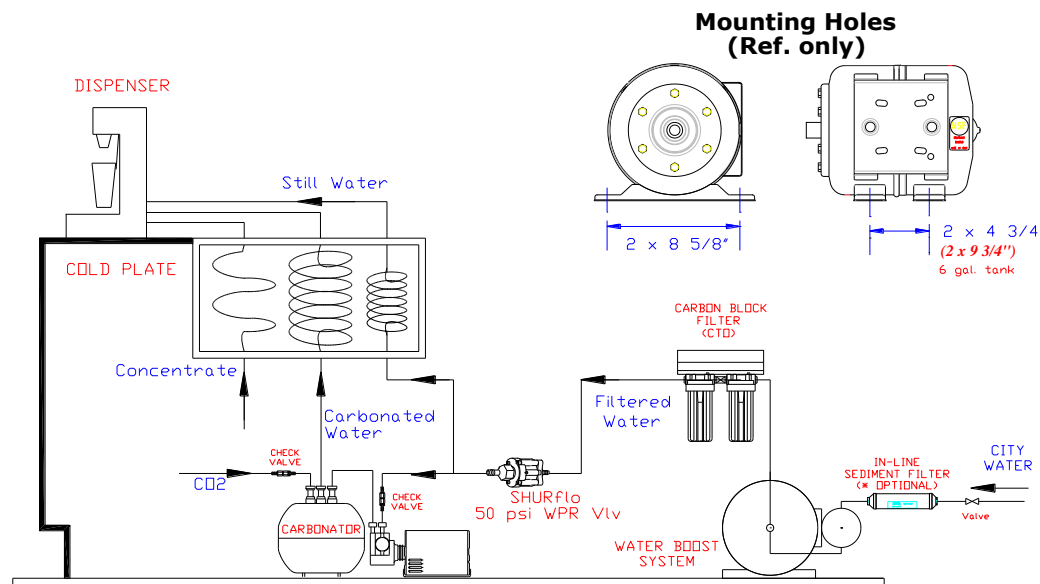


2 gal. Water Booster

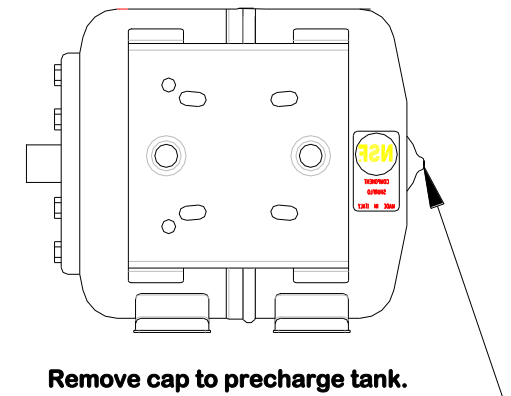


6 gal. Water Booster

Water Boost System Installation Diagram



CAUTION: never put a filter to remove chlorine before the water boost system



Remove cap to precharge tank.
Recap after charging tank.

NOTE 3: the accumulator tank pre-charge should be checked bimonthly or as necessary. All outlet water pressure must be depleted from tank prior to checking or recharging.