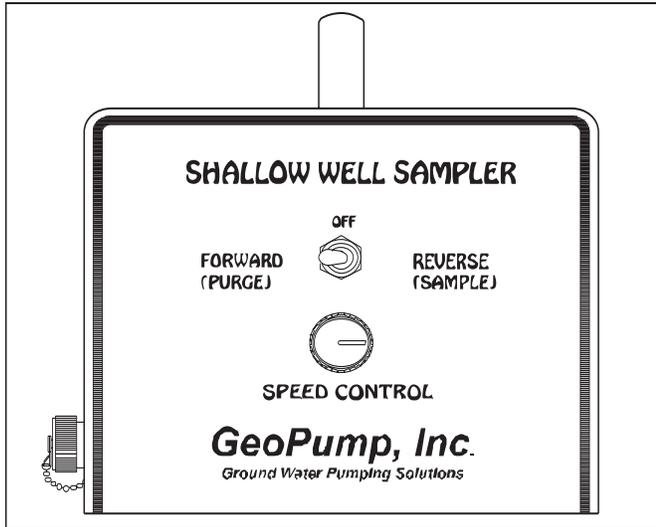


GeoPump

Ground Water Pumping Solutions

SHALLOW WELL SAMPLER



The Model 5750 Shallow Well Sampler is a portable, peristaltic pump with a maximum lift capability of 26 feet. This pump is ideal for purging shallow monitoring wells, cleaning GeoPump bladder pumps and tubing assemblies and a variety of applications where it is necessary to move small volumes of liquid.

The medical grade silicone tubing is the only pump component that comes in contact with the liquid.

The unit requires 12 VDC power which is supplied by an optional 6 Amp-hour 12 VDC rechargeable gel cell battery, 115 VAC/12 VDC power converter, or 12 VDC power cords for connection to a vehicle battery or lighter socket. It is equipped with a three position power switch which allows it to operate in either the forward (suction) or reverse (purge) modes. Also included is a speed controller, which varies the pumping rate. The unit is housed in a rugged ABS housing.

DESIGN SPECIFICATIONS MODEL 5750/5751

MAXIMUM LIFT:	26 ft./8 m
FLOW RANGE:	500 to 4000 ml/min @ 3 ft. 100 to 750 ml/min @ 26 ft.
PUMP TYPE:	Peristaltic
PUMP TUBE MATERIAL:	Medical Grade Silicone
PUMP TUBE LIFE:	1000 gal./ 3780 l (avg.)
POWER:	12 VDC
WEIGHT:	8.5lbs/4 k (5750) 10lbs/4.5 k (5751)
LENGTH:	12.75"/ 32.4 cm
HEIGHT:	7.75"/ 19.7 cm
WIDTH:	7.25"/ 19.7 cm

SHALLOW WELL SAMPLER & ACCESSORIES

PART NUMBER	ITEM DESCRIPTION
5750	Shallow Well Sampler (12 VDC)
5751	Shallow Well Sampler (12 VDC /120 VAC).
POWER OPTIONS	
5006	12 VDC, 6 Amp-Hour, rechargeable, gel cell lead/acid battery.
6216	Charger for Model 5006 battery.
5799	25 ft. power cord with vehicle cigarette lighter adapter.
5798	25 ft. power cord with vehicle battery clamps.
SUCTION TUBING OPTIONS	
5074	.375" I.D. x .500" O.D. (0.95 cm I.D. x 1.27 cm O.D.) polyethylene tubing.
5178	.375" I.D. x .500" O.D. (0.95 cm I.D. x 1.27 cm O.D.) Teflon lined polyethylene tubing.
6396	.375" I.D. x .500" O.D. (0.95 cm I.D. x 1.27 cm O.D.) Teflon tubing.
SUCTION STRAINER	
5335	316 S.S. continuous wrap screen with .010" (.025 cm) slots.
REPLACEMENT PUMP HEAD TUBING	
1260	.375" I.D. x .625" O.D. (.095 cm I.D. x 1.60 cm O.D.) Durometer 50 Shore A medical grade silicone rubber tubing.

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SHALLOW WELL SAMPLER

Cleaning of Portable Pumps and Tubing Using the GeoPump Shallow Well Sampler

The U.S.E.P.A. RCRA Ground Water Monitoring Technical Enforcement Guidance Document describes cleaning procedures that must be used and documented for all ground water monitoring programs.

Cleaning Procedure for the Collection of Inorganic Constituents

1. Clean with a non-phosphate detergent.
2. Rinse with a dilute solution of hydrochloric acid.
3. Rinse with tap water.
4. Rinse with Type II reagent grade distilled water.

Cleaning Procedure for the Collection of Organic Constituents

1. Clean with a non-phosphate detergent.
2. Rinse with tap water.
3. Rinse with Type II reagent grade distilled water.

4. Rinse with acetone.
5. Rinse with pesticide quality hexane.

Cleaning Procedure for the Collection of Both Inorganic and Organic Constituents

1. Clean with a non-phosphate detergent.
2. Rinse with dilute hydrochloric acid.
3. Rinse with tap water.
4. Rinse with Type II reagent grade distilled water.
5. Rinse with acetone.
6. Rinse with pesticide quality hexane.

This document also points out, "The sampling equipment should be thoroughly dried before use to ensure that the residual cleaning agents (e.g. HCl) are not carried over to the sample".

GeoPump offers the Shallow Well Sampler as a practical means of cleaning air acuated pumps and tubing assemblies. There are two ways that this can be accomplished:

1. Place the intake tubing of the shallow well sampler into a vessel containing cleaning solution (for example, detergent solution). Attach the discharge tube of the shallow well sampler to the intake port of the submersible pump (bladder pump or gas-drive pump) with the submersible tubing assembly connected to the pump. Move the shallow well sampler toggle switch to the FORWARD position and the cleaning solution will move through the submersible pump and tubing assembly. Successive rinses can be accomplished simply by moving the shallow well sampler intake tubing into vessels containing the rinse solutions (dilute acid, distilled water, etc.)

2. Attach the intake tubing of the shallow well sampler to the end of the discharge tubing of the bladder pump or the gas-drive pump. Place the submersible pump intake into a vessel containing the cleaning solution. Move the shallow well sampler toggle switch to the FORWARD position and the cleaning solution will be drawn through the submersible pump and tubing assembly and will exit from the shallow well sampler discharge tubing.

These are two very effective ways of cleaning portable sampling equipment, offering the advantages of thoroughly cleaning bladders and inside of the discharge tubing without the need to disassemble the pump.