

# geotech

## geosquirt 12 VDC Purge Pump Manual

Part No. 11200188



### System Installation

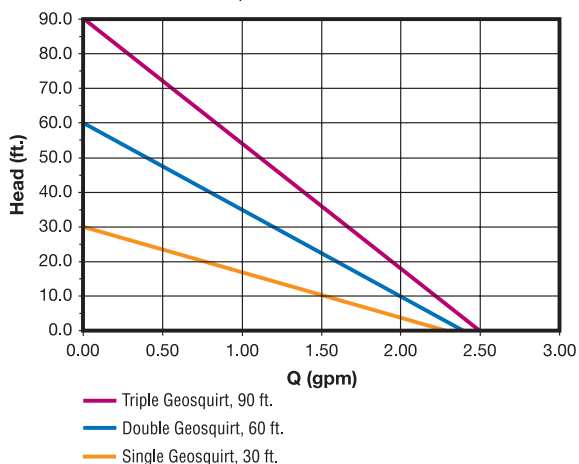
**NOTE: If using Geotech's BUuck or BUuck Plus Controllers, see their manual for Operating Instructions.**

1. Attach tubing and lower the geosquirt to the desired level.
2. Connect power cords to power supply.
3. Allow to pump for up to 15 minutes, then disconnect from power supply.
4. Allow to cool for 5 minutes.
5. Reconnect to power supply to continue pumping. Repeat steps 2-5 until job is done.
6. When finished pumping, the geosquirt can be left hanging in the well for dedicated installations or removed and decontaminated according to your site specific protocol, and then used at another location.

### System Operation

- The Geotech **geosquirt** was designed for use with water. If it is intended for use with any other liquid, it is the user's responsibility to ensure that the materials are fully compatible with the liquids to be used and that a system of safe working practice is applied to installation, use and maintenance.
- The Geotech **geosquirt** was designed to operate only when it is submerged in water. Do not operate pump when it is out of water. Running the pump dry will destroy the pump and void warranty.
- The Geotech **geosquirt** is not designed to pump silt or sand. Pumping silt or sand will destroy the pump and void any warranty responsibility on the part of Geotech Environmental Equipment.
- The Geotech **geosquirt** should be allowed to cool 5 minutes for every 15 minutes of pumping. Overheating will destroy pump and void warranty.
- The pump draws 3.3 amps (Single), 6.2 amps (Double), 8.0 amps (Triple) and needs an independent 12 VDC power supply. Due to possible voltage fluctuation, which can damage the pump, **it should not be operated from a charger or running automobile engine.**

**GEOSQUIRT FLOW CURVES**



### System Maintenance

Follow standard protocols for a three bucket wash to clean and decontaminate your geosquirt between wells and prior to storage.

## System Troubleshooting

The Geotech geosquirt is a disposable purging pump. There are no repair parts available.

### ☹ Pump will not power up:

- ✓ Check power connectors (If they do not work, buy new ones, they are disposable).
- ✓ Check power supply for sufficient voltage.
- ✓ Check for kinks, breaks, and splits in motor lead.

### ☹ Pump will power up, but minimal or no flow

- ✓ Check tubing between pump stages for breaks
- ✓ Check intake screen for blockage and clean as necessary.

## Replacement Parts List

The Geotech geosquirt is a disposable purging pump. There are no repair parts available, but you can choose from the following replacement units:

Part Number	Part Description	
81201005	Pump, geosquirt, Single, 30 ft.	30 ft. Motorlead, No Clips
81201001	Pump, geosquirt, Double, 60 ft.	60 ft. Motorlead
81201002	Pump, geosquirt, On Reel	w/60 ft. Motorlead, 55 ft. Vinyl Tubing
81201008	Pump, geosquirt, Triple, 90 ft.	w/90 ft. Motorlead
81201000	Pump, geosquirt, Double	w/Pigtail, 1 ft.
81201007	Pump, geosquirt, Triple	w/Pigtail, 1 ft.
81200028	Controller, BUuck, 12 V	
81202016	Controller, BUuck Plus, 12 V	
51200001	Assy., Checkvalve, geosquirt	
11200135	Reel, Plastic, Cord Stand, Orange	"A"

## System Specifications

<b>Dimensions</b>	<b>Single Stage:</b> 1.43" diameter x 5" length (3.6 cm diameter x 12.7 cm length) <b>Double Stage:</b> 1.68" diameter x 10.5" length (4.27 cm diameter x 26.67 cm length) <b>Triple Stage:</b> 1.68" diameter x 16" length (4.27 cm diameter x 41 cm length)
<b>Outlet Required</b>	3/8" (10 mm) I.D. tubing
<b>Permanent Optional Outlet</b>	Optional fitting allows 1/2" (13 mm) tubing
<b>Power Requirement</b>	Independent 12 VDC source
<b>Current Draw</b>	3.3 amps (Single), 7.2 amps (Double), 8.0 amps (Triple)
<b>Principle of Operation</b>	Intermittently rated centrifugal pump
<b>Operating Temperature</b>	In water up to 60°C (140°F) <u>do not freeze pump</u>
<b>Flow Rate (dependent on depth)</b>	Up to 2.5 GPM (9.5 LPM)
<b>Maximum Recommended Depth</b>	30 feet (Single), 60 feet (Double), 90 feet (Triple)
<b>Pump Material</b>	ABS plastic
<b>Material of Seal</b>	Rubber
<b>Length of Motor Lead</b>	30 feet, 60 feet, 90 feet (9 m, 18 m, 27 m)
<b>Recommended Pumping Duration</b>	15 minutes then cool for 5 then resume operation, etc.

## The Warranty

For a period of thirty (30) days from date of first sale, product is warranted to be free from defects in materials and workmanship. Geotech agrees to repair or replace, at Geotech's option, the portion proving defective, or at our option to refund the purchase price thereof. Geotech will have no warranty obligation if the product is subjected to abnormal operating conditions, accident, abuse, misuse, unauthorized modification, alteration, repair, or replacement of wear parts. User assumes all other risk, if any, including the risk of injury, loss, or damage, direct or consequential, arising out of the use, misuse, or inability to use this product. User agrees to use, maintain and install product in accordance with recommendations and instructions. User is responsible for transportation charges connected to the repair or replacement of product under this warranty.

### Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205  
(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242  
e-mail: sales@geotechenv.com • web site: www.geotechenv.com