

# BLATYPUS PUMP

The Only Bladderless Bladder Pump Species: *Bladderensis Obsoletis*

The Blatypus Pump has no internal bladder, but functions like a bladder pump. The Blatypus eliminates purging and sampling problems associated with tearing and leaking bladders as well as limited lift capacity issues with traditional bladder pumps.

With durable fittings, sturdy design, low cost, and customization options, the Blatypus is the next generation in low-flow submersible pump technology.

## Specifications

- ▶ No Bladder
- ▶ Shallow and Deep Lift Capacity (to 3,000 ft.)
- ▶ 200 ml Chamber
- ▶ Multiple Controller Options (BESST, QED, Solinst, Geotech, and others)
- ▶ Variable Tubing Configurations
- ▶ Immediate Lift Pressure Ramp-Up
- ▶ 30 Year Warranty
- ▶ Price: \$396 per pump

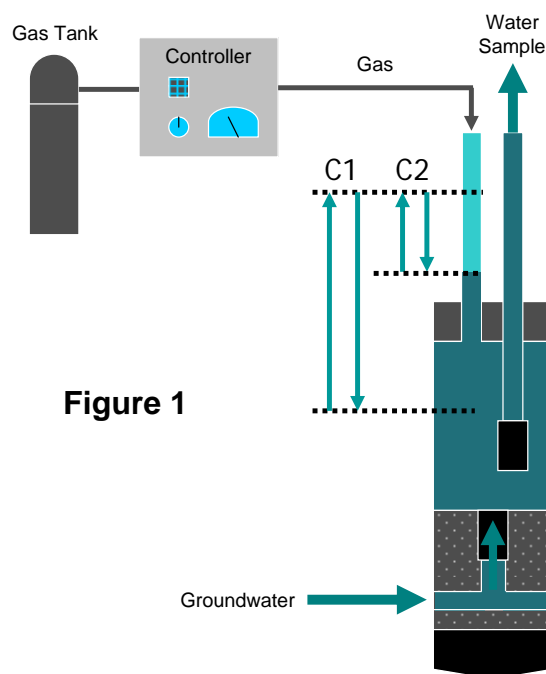
## Conceptual Operation (Figure 1)

1. Compressed gas combined with control timer repeatedly moves groundwater up and down between two lines (C). C1 represents a high permeability/fast-recharge condition, and C2 represents a low permeability/slow-recharge condition.
2. BESST's proprietary valve system draws fresh water into chamber during the recharge cycle and discharges that water during the purge cycle.



## Dimension options

- ▶ 23" L x 1.75 W – 200 ml Chamber
- ▶ Custom Configurations (e.g. with Lift Station)
- ▶ Variable Tubing Sizes for Higher Purge Rates



**Figure 1**

3. Groundwater incrementally fills sample return line until water reaches the ground surface.
4. The water interface repeatedly filling the gas-in line never becomes part of the sample stream. No gas comes into contact with the groundwater sample.