



**FIELD ENVIRONMENTAL
INSTRUMENTS, INC.**

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NEW

ENVIRONMENTAL EQUIPMENT AND FIELD SUPPLIES

The Poseidon 12 Volt Remediation Pump

A 12-volt battery or solar-operated submersible water pump that easily fits into a two-inch well.

The Proactive Poseidon™ 12 volt submersible pump by is engineered for pump tests and groundwater remediation. This pump line series fits into a schedule 40 or 80 two-inch well.

Two pumps are in the series.

- The Poseidon 80 pumps 80 feet depth to water.
- The Poseidon 60 pumps 60 feet depth to water.

It's simple to install and operate. Just hose clamp a 3/8" id polyethylene tubing onto the pump barb tip and attach your desired suspension rope to the eye hook provided on top of the pump.

Then, lower the pump to the desired water depth and energize it with a deep cycle marine

battery and/or a small solar system. You can also hook up the Poseidon pump to our weatherproof 110 volt step down transformer.

The life of the pump depends of course how often it is used. The great benefit of the Poseidon Pump Series is the patented replaceable motor module that can be changed out within 60 seconds.

The Poseidon 60 and 80 pumps are engineered for ease of use. The pumps consist of 4 components:

1. The replaceable motor module
2. The motor module housing top connector
3. The outside pump housing
4. The pump power wire



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PUMP SPECIFICATIONS

Tests were conducted using a 50 amp deep cycle marine battery that has a constant voltage of 12.5 at the battery terminals.

DTW=Depth of Water or true pumping depth. For example: if the stagnant water column is 60 feet, then the pump will be able to lift a true 1.4 GPM per minute (referencing the Poseidon 80) plus or minus a little bit, depending upon the voltage output of the battery.

PUMP 60 PUMP CHART

10 DTW	20 FEET	30 FEET	40 FEET	50 FEET	60 FEET	70 FEET	80 FEET	90 FEET
2.25 GPM	2 GPM	1.65 GPM	1.3 GPM	1.0 GPM	.50 GPM	0 GPM	0 GPM	END OF WIRE

10 amp draw at 10 feet depth to water. 6 amp draw at 60 feet depth to water. NOTE: GPM=gallons/minute

The Poseidon 60 is supplied with the following: 90 feet of heavy duty 10 gauge wire directly attached to the pump.

PUMP 80 PUMP CHART

10 DTW	20 FEET	30 FEET	40 FEET	50 FEET	60 FEET	70 FEET	80 FEET	90 FEET
DON'T USE	DON'T USE	DON'T USE	2.0 GPM	1.75 GPM	1.4 GPM	1.25 GPM	1.0 GPM	END OF WIRE

10 amp draw at 10 feet depth to water. 13 amp draw at 80 feet depth to water. NOTE: GPM=gallons/minute

The Poseidon 80 is supplied with the following: 90 feet of heavy duty 10 gauge wire directly attached to the pump.

IMPORTANT NOTES

- The Poseidon Pump series is constructed from ABS/PVC and Stainless steel.
- Specifications and color of the pumps may change without notice.
- The Poseidon 60 pump wire may be cut down to any specific length. However, the Poseidon 80 pump wire cannot be cut to shorter lengths. Doing so will over amp and over volt the motor module causing premature failure.
- When using the Poseidon 80 pump, only use this pump at depths of 40 feet DTW or deeper. Failure to do so will damage the motor module and void all warranties.