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ENERGY CORPORATION**

For The Betterment of Mankind



**FELTENBERGER PENDULUM
PUMP MASTERS**
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Introducing Gravity Assisted Power

The GEC Portable Water Treatment Facility Water Pumping Capability

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The GEC Portable Water Treatment Facility, featuring the Feltenberger Pendulum Pumping System is capable of pumping and processing contaminated water to produce up to 1,000 gallons per hour of safe drinking water, which meets or exceeds the standards for drinking water established by the World Health Organization. If desired, instead of producing this much regular drinking water, a higher grade of pure water can be produced by turning on the Aquathin Reverse Osmosis (R/O) system. This can produce 400 to 500 gallons per day of R/O water. Simultaneously, when the R/O system is in use, up to 2500 gallons per day of regular drinking water can also be produced by using the AquaShield filtration system along with the R/O system.

In some situations where the source water is extremely contaminated (bordering on raw sewage) it may be desirable to drink only R/O water. It is always a good idea whenever possible, to have the source water tested by a qualified laboratory so that we can recommend the best combination of filters and/or reverse osmosis to produce good drinking water.

Generally speaking, the more contaminated the source water is, the higher the pressure that is required for proper treatment. Unlike the simple lever arm pumps that our fore fathers used that become more and more difficult to operate as the pressure increases, the Feltenberger Pendulum Pump automatically compensates for higher pressures by allowing the operator to pump a reduced volume of water without increasing the effort being applied to the pump. By selecting the proper P/V setting on the pump, an "average" operator can produce drinking water under nearly any circumstances. In every case, the pendulum pump is hand-operated and Gravity Assisted, which allows the operator to pump water for the longest period of time before fatigue sets in.

For sustained pumping operations, it is recommended that more than one operator be available to take turns pumping.

The volume of water and pressure that is pumped will vary based on the strength of the operator (s). The following is a guideline:

<u>Volume of water pumped</u>	<u>Pressure</u>
900 to 1800 gallons per hour	5 to 10 psi
450 to 900 gallons per hour	10 to 20 psi
225 to 450 gallons per hour	20 to 40 psi
112 to 225 gallons per hour	40 to 80 psi

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