

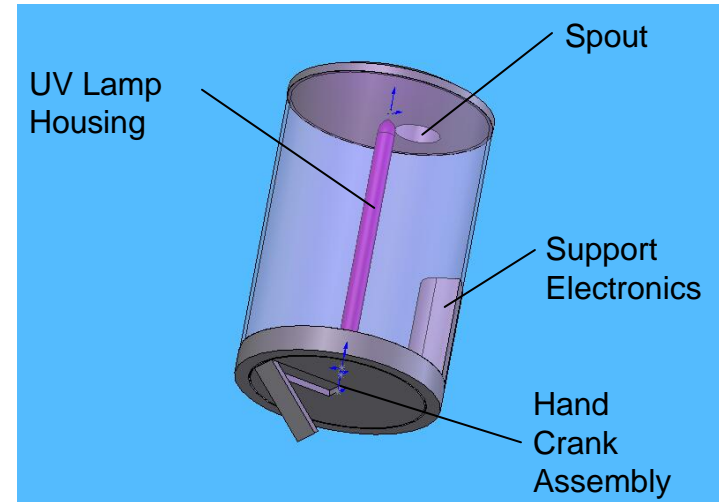


Radiant Flux

Challenge 2: Water Purification Unit for Remote Locations
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DESIGN CONCEPT

- Portable hand powered UV water sterilization system
- Timer circuitry ensures correct dose and crank speed
- Exterior plastic blocks UV exposure
- Attaches to a membrane pre-filter stage



DESIGN HIGHLIGHTS

- Rugged, lightweight design.
- **Sterilizes 1 liter of water killing bacteria, protozoa, and viruses in < 1 minute!**
- Hand-crank power eliminates need for batteries for true portability.
- Built-in safety features
- Exceeds Class A NSF/ANSI Standard 55

SOLDIER BENEFITS

- Eliminates supply chain dependence
- Rapid and effective sterilization
- Easy to clean and maintain
- Several thousand uses without bulb replacement
- Deactivates biological agents in water (anthrax, tuberculosis, smallpox, plague)