



EMERGENCY PREPAREDNESS WORKSHOP:



Fuel & Cooking Without Electricity

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Fuel



Fuel: Butane





Fuel: Butane

- Pros:

- Relatively easy to find
- Convenient
- Clean Burning
- Easy lighting, no Priming, no Pumping
- Long Storage Life
- Can use Indoors

- Cons:

- Freezes at low temperatures
- Relatively expensive



Fuel: Kerosene





Fuel: Kerosene

- Pros:

- Relatively Inexpensive
- Easy to Find, Buyable in Bulk
- Burns easily and hot
- Can be used indoors
- Stores Indefinitely

- Cons:

- Burns dirty
- Has an odor
- Priming required
- Can clog stove parts



Fuel: White Gas/Coleman Fuel





Fuel: White Gas/Coleman Fuel

- Pros:

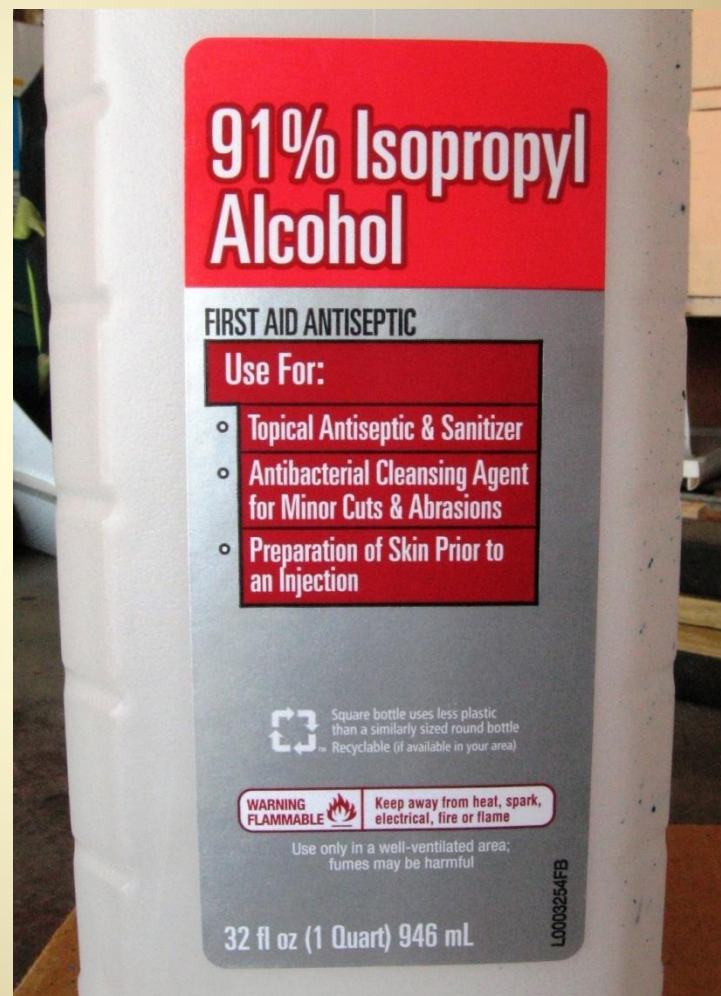
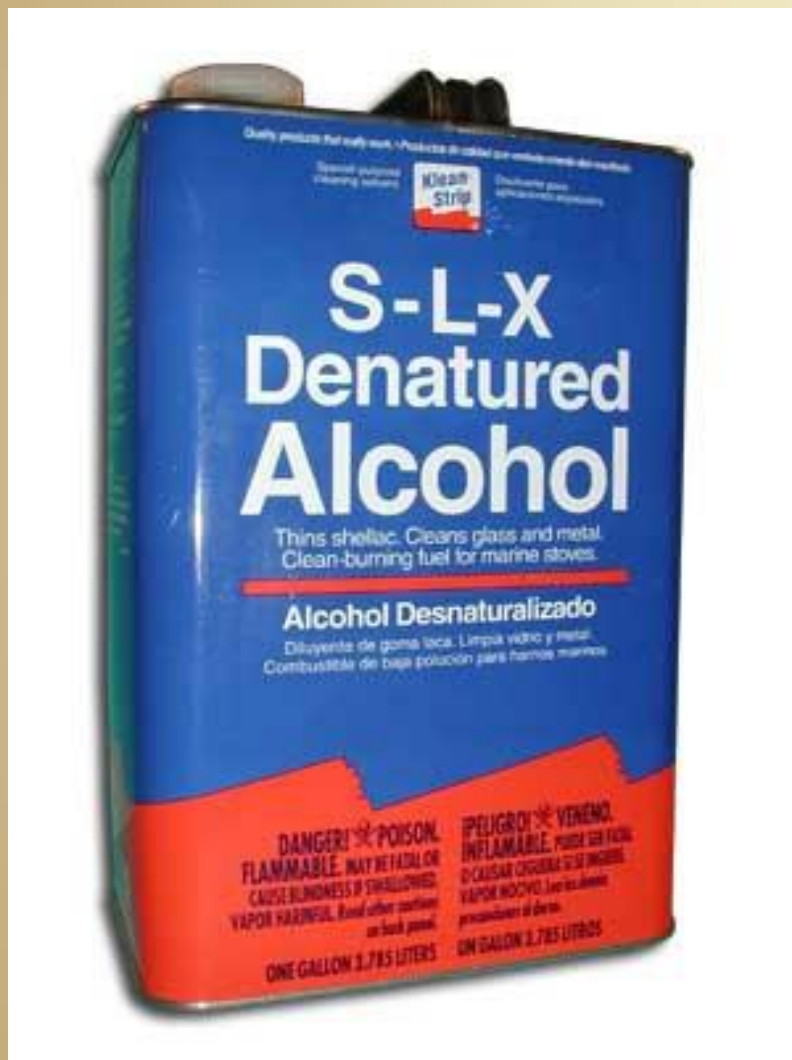
- 5-10 Years storage life
- Relatively Inexpensive
- Easy to Light and Burn

- Cons:

- Volatile
- Priming Required
- Highly Flammable



Fuel: Alcohol





Fuel: Alcohol

- Pros:

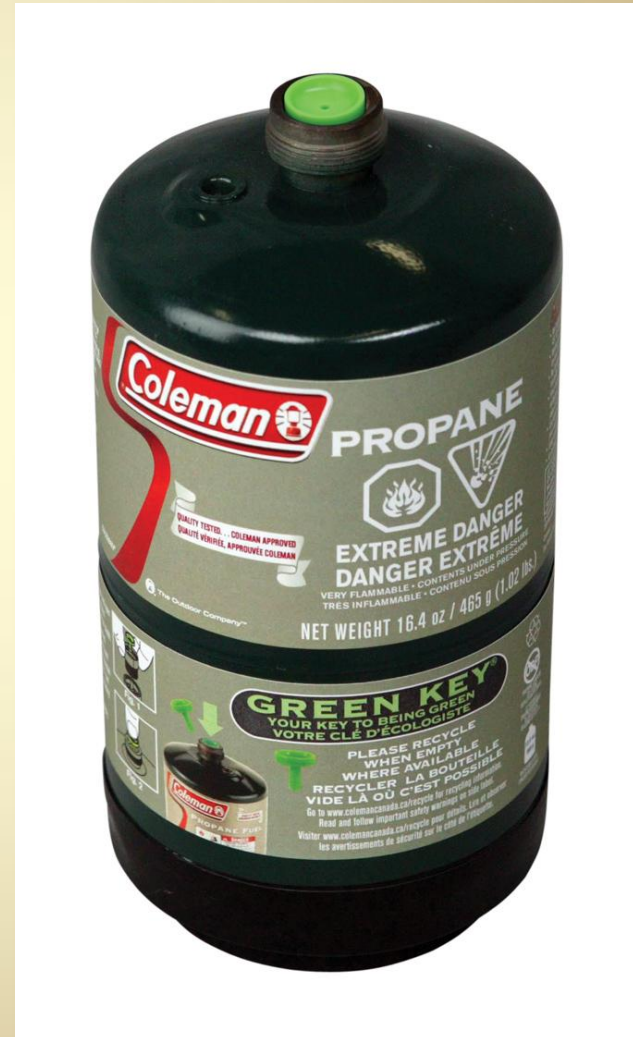
- Inexpensive
- Readily available
- Alcohol stoves have fewer moving parts

- Cons:

- Doesn't burn as hot
- Evaporates
- Harder to light



Fuel: Propane





Fuel: Propane

- Pros:

- Relatively Inexpensive
- Readily available
- Stores Indefinitely
- Rotten egg smell alerts you to possible leak

- Cons:

- Can explode at ignition source
- If leaking, gas can accumulate and explode



Fuel: Charcoal





Fuel: Charcoal

- Pros:

- Very Inexpensive
- Easy to Locate
- Stores Indefinitely (Dry)
- Predictable Heat Pattern (1 Briquette = $\sim 35^\circ$)
- Year supply of fuel for about \$100

- Cons:

- Must remain dry
- Hard to ignite



Fuel: Wood





Fuel: Wood

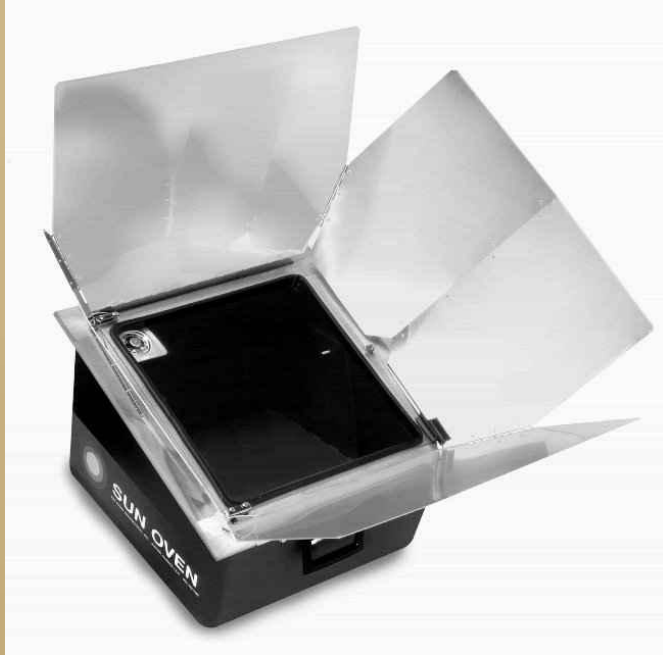
- Pros:

- Free if you collect/chop your own
- No Toxic Fumes
- Typically readily available

- Cons:

- Low burn efficiency
- Lots of storage space needed
- Not all wood burns well (Know your Woods)

Cooking Without Electricity





Solar Cooking

- Panel Cookers

- A Reflective Panel that directs sunlight to a dark-colored pot enclosed in a oven bag.
- Food cooks at low heat 200°-275° F.
- Folds flat, lightweight
- cheapest solar cooker.



Panel Solar Oven





Solar Cooking

- Box Cookers
 - Insulated box-in-a-box
 - Glass lid pointed towards the sun, traps heat inside like a greenhouse.
 - Food in dark covered pots reach cooking temperatures. 300°- 450° F.



Solar Oven





Solar Oven





Solar Oven





Solar Oven





Solar Cooking

- Parabolic Cookers
 - Use a parabolic mirror to focus light on a cooking pot.
 - The pot is placed at the focal point where the temperature can reach over 600° F.
 - Most Expensive Solar Cooker.



Parabolic Solar Oven





Parabolic Solar Oven





Heat Retention Cookers

- Other Names:
 - Hay Box
 - Hay Basket
 - Wonder Box
 - Icebox Cooker
 - Retained Heat Cooker



Hay Box





Hay Basket





Ice Box Cooker





Ice Box Cooker





Ice Box Cooker





Wonder Box





Wonder Box





Wonder Box





Wonder Box





Wonder Box





Wonder Box



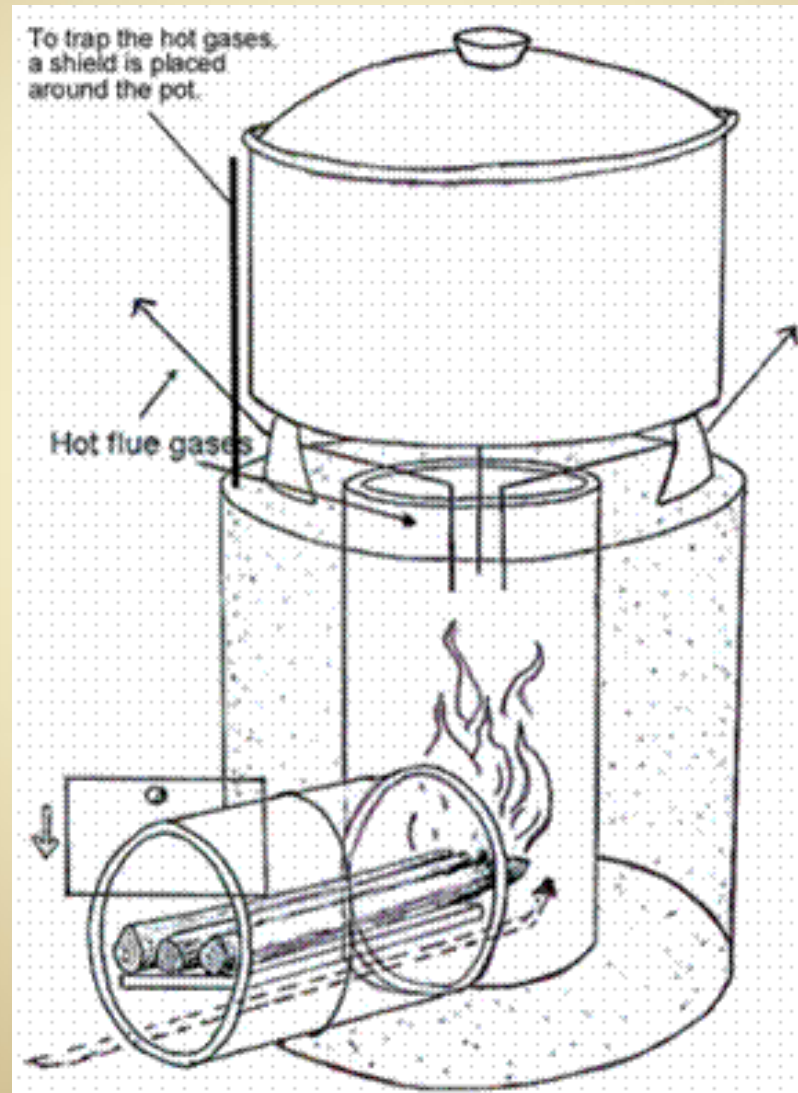


Wonder Box





Rocket Stove





Rocket Stove





Rocket Stove





Rocket Stove





Rocket Stove





Apple Box Oven





Apple Box Oven





Dutch Oven





Backpacking Stoves





Backpacking Stoves





Backpacking Stoves





Backpacking Dutch Oven





Alcohol Stoves (Soda Can)



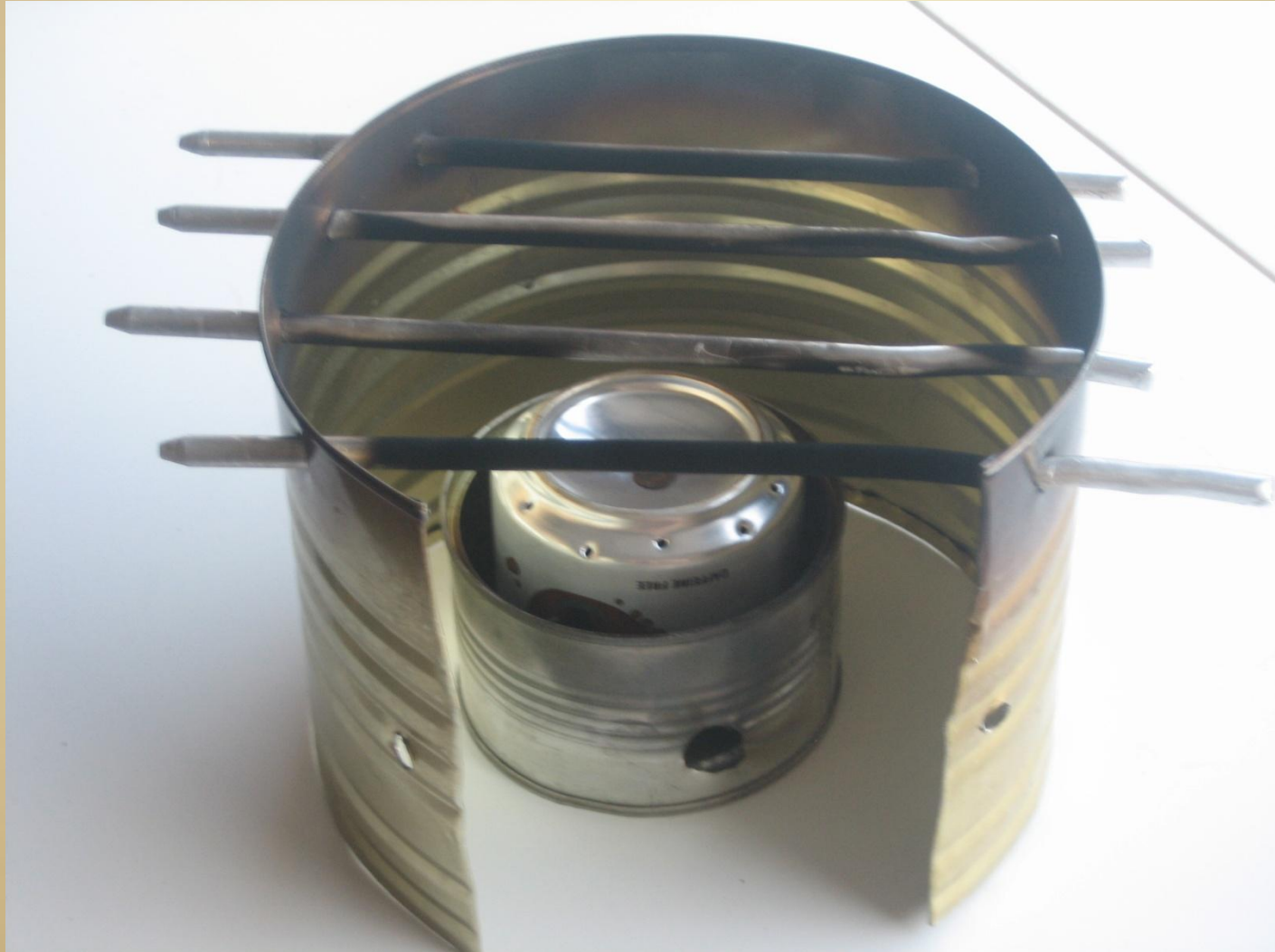


Alcohol Stoves (Soda Can)





Alcohol Stoves (Soda Can)





Alcohol Stoves (8oz. Soda Can)





Alcohol Stoves (Paint Can)





Alcohol Stoves (Paint Can)





Hexamine/Trioxane Stove





Hexamine/Trioxane Stove





Hexamine/Trioxane Stove





Volcano Stove



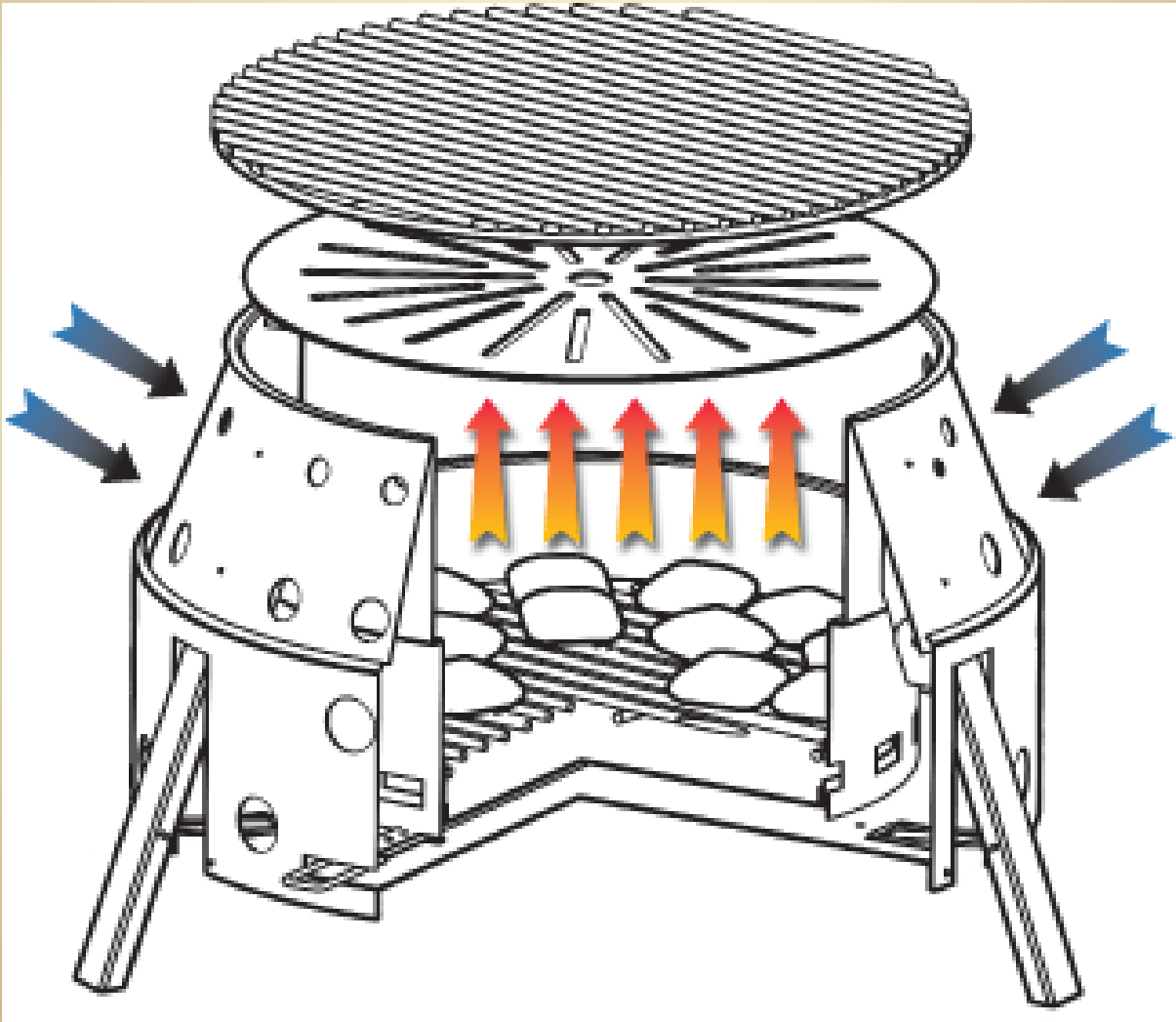


Volcano Stove





Volcano Stove



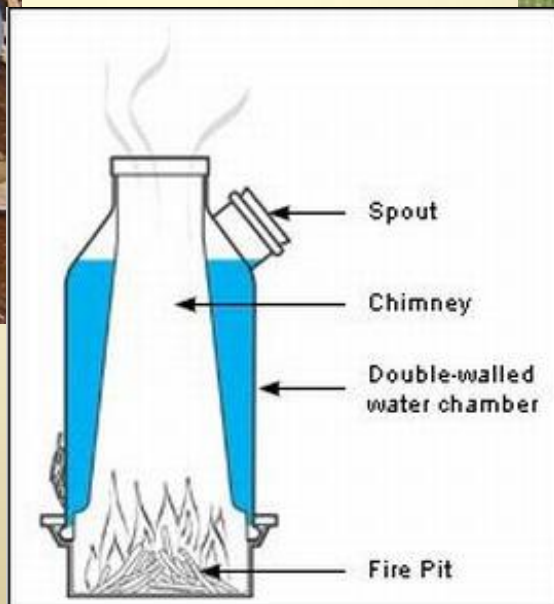


Volcano Stove

- The Volcano Stove is a very efficient outdoor stove.
- Its double-wall and chimney effect channels heat directly to the food instead of the surrounding air.
- Results in a stove that can cook twice a day for an entire year using only 300 lbs. of charcoal.
 - $300 \text{ lbs.} \times \$0.37/\text{lb.} = \$111$ $300 \text{ lbs.} \times \$0.22/\text{lb.} = \$66$
- One 25 lb. bag of charcoal can provide 2 meals a day for 10 people during prolonged power outages caused by emergencies and disasters.
- Amazon.com \$92.95. + Propane Adaptor \$139.95.



Kelly Kettle





Swiss Ranger Volcano Stove





Sterno (Alcohol Gel)





BBQ





Outdoor Stove





Survival Candles





Candles





Buddy Burner





Tea Candles





Camp Stoves (White Gas / Propane)





Camp Stoves (Butane / Kerosene)





Pyromid





Coleman Camping Oven





Campfire Grill





Campfire Reflector Oven



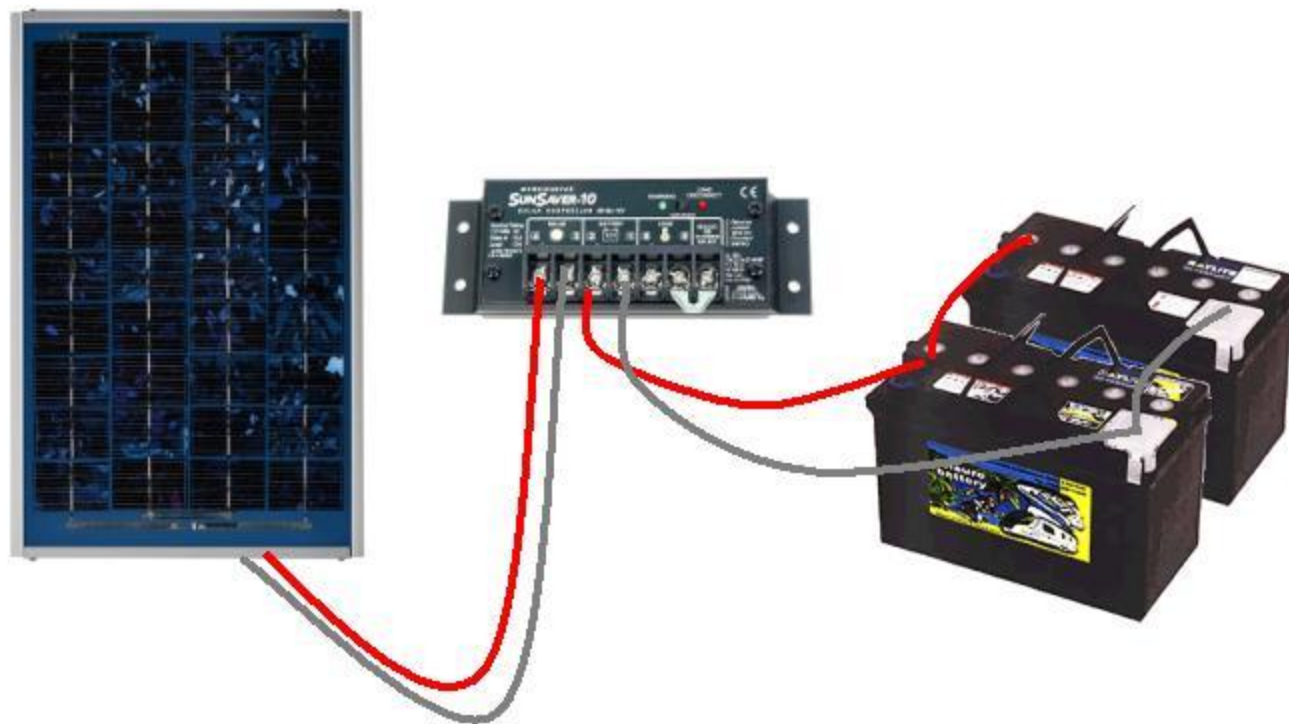


Generator



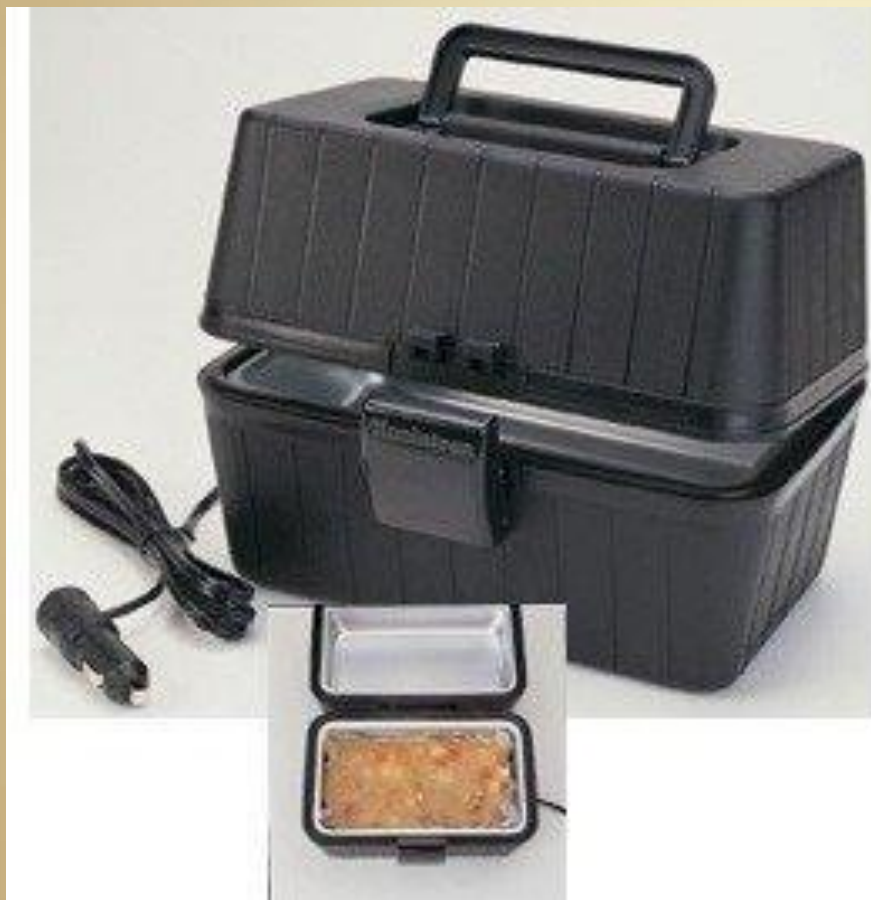


12V via Solar Panel/Battery





12v Lunch Box Stove/Crock Pot



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