

Aprovecho Research Center

Advanced Studies in Appropriate Technology Laboratory

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Initial Development of a Charcoal-Burning Rocket Stove Dean Still June 5th, 2006

Insulated Rocket Stove for Charcoal:





Preliminary Fuel Use and Emissions Test Results:



Insulated Chimney (33 cm tall)



Grate under chimney to hold charcoal

Charcoal Rocket Ghana WFP Wood Wood Stove (Without Charcoal Rocket Benchmark Skirt) Stove (with Skirt) Time to Boil min 22 29 22 _ 850 Fuel to Cook 604 675 733 g Energy to Cook 15,000 19,130 21,396 12,579 kJ CO to Cook 20 12 74 15 g PM to Cook mg 1500 81 85 1289

Charcoal energy to cook = kg to cook * 31680 kJ/kg