

Furno EES with bio-mass briquettes

The fuel is a hardwood sawdust briquette bound by shredded, soaked typing paper. The fuel was made in a press designed by Richard Stanley.

The important dimensions are that the combustion chamber is 125mm in diameter and the briquette is 110 mm. The briquette has a centre hole of 40 mm. They are about 75 mm high. Burning two at a time (it can stack 3) looks like this:



The fire is a combination of a gas production zone with restricted primary air and a secondary air supply zone, with enough clearance around the briquette to prevent the outside of the fuel being kept away from the fire. If the briquette is tight in the chamber, it does not burn properly at a decent rate. Basically, it has to breathe.

The flame space is sufficient to allow the combustion to be mostly completed before the hot gases hit the pot.

The Furno EES is a VESTO stove developed by Crispin Pemberton-Pigott of NDE without an air controller. This project was designed around a humid tropical environment, locally produced biomass briquettes and a stove that will be largely manufactured locally to a specified design.

The Vesto from NDE (Swaziland)



Furno EES (test version) in The Gambia

