Forced Air Mixing With The Jet-Flame ETHOS 2020



Stove Descriptions and Comparis

Teel Results of Cock Stove Performan Wood Flame

Origin: Canada Weight: 6 kilos

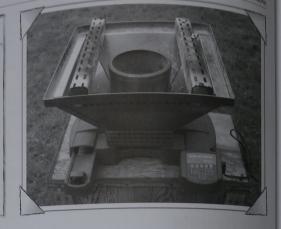
Fuel Type: Wood

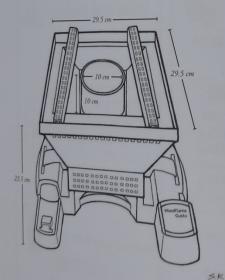
Contact: Woodflame

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Description:

The Wood Flame stove uses a small, externally powered electric fan to mix wood gases, air and flame to clean up combustion. In the bottom of the metal combustion chamber are many very small holes which send strong jets of air up through the burning wood.

A griddle used for grilling comes with the stove. When tested, the griddle was removed and supports were made to hold up the pot.

The combustion chamber is filled with small pieces of wood and lic.As the fire grows larger, the speed of the fan is increased manually, creating a small blast furnace. Wood is added to the combustion chamber by slidingit under the pot.

Blowing air up into the fre causes the fire to look very"jumpy" and frenzied. Flames turn from yellow to reddish to blue at various stages of burning.



Wood Flame

Performance:

The Wood Flame stove uses a batch of wood to grill foods. In these tests, the grill is removed so a full Water Boiling Test can be performed.

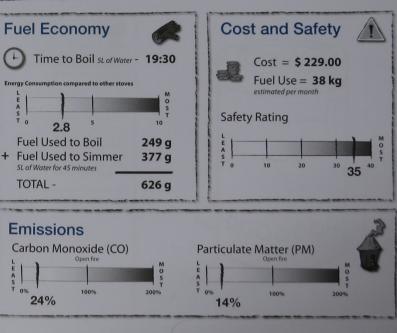
This is an interesting stove to use, with nine fan speeds. The amount of air is matched to the size of the fire. The stove is amazingly clean burning and uses a reduced amount of fuel. Feeding the stove under the pot is challenging, however.



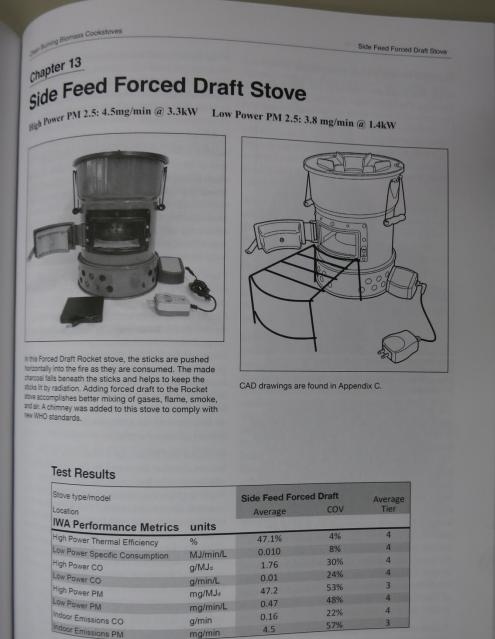
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The stove uses much less wood than the 3 Stone Fire and makes only 16% the CO and 2% of the PM made by the 3 Stone Fire.

Test Results



35



mg/min

67







