

FATBOY V3
 The Fatboy Up Draft Top Lit Gasifier is an open source project. It is free to copy, share and improve. Please share your improvements as that is the idea behind an open source project. For more information and photos please visit www.biochar.net
 Current design by Barry Batchelor

Quench indicator, use a small stick which sits through the pin hole and lays on the grate when the stick burns out the pin drops down

Drum 950 high 570 wide
 Chamber (100kg gas bottle) 950 high 375 wide

100 litres biomass, 30 litres of biochar
 45-110 minutes per batch

Flue 1800mm minimum high
 Add a weather cap and spark arrester if required.
 Gal can be used for the flue set up but will slowly rust.

Flue can slide off when cool for storage

Vortex slot 2x200mm (I use a grinder cut off wheel)

tertiary air (20mm gap)

Condenser insulation (25mm ceramic fiber)

Condenser pipe needs 180mm internal dia

Secondary air (2mm gap)

Simple slide in/out panel for lighting and for cooking marshmallows

Two point linkage with woodern handle to lift the lid half way off to allow for refilling, lock in and tip over issues need to be desiged

45kg gas tank chamber

44 gallon drum

Loose Perlite insulation

Wheelbarrow style handle and wheel setup

Pull pin to empty unit

Primary air inlet

Quench indicator pin

grate

Primary air inlet

Quench box sides need to be as high as possible, to stop side spillage

Quench liquid

Quench bath (gal toolbox)

Dropped quench indicator pin

