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.

- Simple slide in/out panel for lighting and for cooking marshmallows
- Two point linkage with wooden handle to lift the lid halfway off to allow for refilling, lock in and tip over issues need to be designed
- Wheelbarrow style handle and wheel setup

- Condenser insulation (25mm ceramic fiber)
- Condenser pipe needs 180mm internal dia
- Secondary air (2mm gap)
- Tertiary air (20mm gap)

- Quench bath (gal toolbox)
- Flue can slide off when cool for storage
- Pull pin to empty unit

- Primary air inlet
- Quench indicator pin
- Primary air inlet
- Grate

- Quench liquid

- Dropped quench indicator pin

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

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