The Masonic Method
How to Operate and Tune an Imbert Type Downdraft Gasifier

Temperature and Pressure measurement points and values

Air Inlet

Pressure 1:
Pressure drop over nozzles

(P1 = 0.5 P2)

Pressure 2:
Full reactor pressure drop. Nozzles + Bed.

(1"h2o < P2 < 12"h2o)

GEK Downdraft Reactor

Gas Exit

Temp 1:
Hearth Restriction

(T1 > 800°C)

Temp 2:
Bottom of Reduction

(T2 < 900°C)

Temperature measurement points:
- Hearth Restriction (T1)
- Bottom of Reduction (T2)