

Appendix D - Numbers

Pot sizes

At KITA the largest pot available is a potsize 25. This is the pot used for all the tests. The pot has three rings. The largest diameter of the pot is at the second ring so we measured only the second ring.

Circumference	1,90 m
Height of second ring	0,22 m
Radius	0,302 m
Diameter	0,604
Area of cross section at second ring	0,287 m ²

Barrel sizes

The dimensions of the paint barrels that are available at KITA are listed below. Out of one barrel two combustion chambers can be made.

Height	0,87 m
Diameter	0,565 m

Costs

The costs that were made while constructing the prototype are listed below.

Old paint barrel	10 GHS
Clean barrel	60 GHS
Iron rod	14 GHS
Grid	Available at KITA for free
Insulation material	Unknown
Labour welder for constructing 1 stove	70 GHS
Paint	15 GHS
Metal bars for the legs	Available at the welder for free

Cookstove dimensions

The dimensions of the different parts of second prototype are listed below.

	Size in meters (m)	Size in inches (")
Combustion chamber		
Diameter	0,25	9,9
Height	0,40	15,7
Diameter hole for wood inlet	0,25	9,9
Wood inlet		
Length	0,25	9,9
Diameter	0,25	9,9
Outer barrel		
Diameter hole in the bottom	0,24	9,5
Diameter hole for wood inlet	0,25	9,9
Height of the part that is cut off	0,09	3,5
Distance between the slits	0,10	3,9
Length of the slits	0,34	13,4
Diameter of wider part	0,636	25
Grids and rings		
Length of rectangular wood grid	0,70	27,6
Width of rectangular wood grid	0,225	8,9
Diameter for grid inside combustion ch.	0,20	7,9
Length of the ring used for the pot grid	1,78	70,1
Length of four bars to make the grid	0,49	19,3
Length of the rings for the wider part	2,00	78,8
Height of first wide ring	0,66	26
Height of second wide ring	0,78	30,7
Stands		
Length	0,10	3,9
Height	0,05	2