
	ISO/IEC 17025:2005 LABORATORY MANAGEMENT SYSTEM		
	STOVE TEST REPORT TEMPLATE USING FDUS 761:2018		Document No.: CRC/FORM/GN-56
			Issue No.: 01
			Revision No.: 00
			Date of Issue: 25 May, 2018
			Next review date: June, 2020



TEST REPORT

Report No: B/TR/2018/035

Name of stove: AWAMU gasfier stove		Type of stove: Metallic stove			
Manufacturer: AWAMU					
Sample laboratory code:		Sample 1	Sample 2	Sample 3	
		2018/B103	2018/B104	2018/B105	
Number of test repetitions:		3	3	3	
Fuel type: Wood		Water content: 5.9%			
		Low heating value (LHV): 30,717 KJ/kg			
Stove description and physical characteristics					
					
Test site: CREEC RTKC Laboratory			Test date: 12 – 20 th July 2018		
Standard referred: Final Draft Uganda Standard FDUS 761:2018 Household biomass stoves - Requirements			Fan power (W): N/A		
Test environment conditions:			Ambient temperature: 21°C-24°C		
			Humidity: 55%-65%		
			Wind speed: No wind		
Test equipment:		Weighing scale	LEMS	Gravimetric	
Model		Class 111	2029	CX 265	
Serial no/asset no.		CRC/BL/050	CRC/BL/001	CRC/BL/065	
Date of calibration		Dec 2017	Aug 2017	Dec 2017	
Test items		Units	Average	STDeV	Classification¹
Thermal performance	Cooking power, P _c	kW	1.09	0.21	
	High power Thermal efficiency, η _c	%	20	0.02	NR
Emission factor	PM _{2.5}	Mg/MJ	958	223.75	NR
	CO	g/MJ	22	5.21	NR
Safety score		Points	70		Class 2
Durability score		Points	86		Class 2
Recommendations:		The stove is Not rated for all parameters.			
Test institution:		Centre for Research in Energy and Energy Conservation (CREEC)			

¹ Refer to the classification criteria in annex 1

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Annex 1: Classification Criteria of carbonized Biomass fuel stoves as per FDUS 761:2018

Criteria	Class			Test Method
	1	2	3	
Efficiency, η_c %	>50	41-50	30-40	Annex B FDUS 761 Standard
Emission Factor	PM_{2.5} mg/MJ	<60	60-99	Annex C FDUS 761 Standard
	CO g/MJ	<9	9-11	
Safety %	≥ 95	79-94	72-78	Annex D FDUS 761 Standard
Durability %	≥ 94	79-94	70-79	Annex E FDUS 761 Standard

Note. The values are determined in accordance with the test method in the FDUS standard 761 and should be corrected to nearest whole number

Class 3 → Improving Performance → Class 1